

TECHNICAL REPORT STANDARD TITLE PAGE

1. Report No. TX-92/1927-1F	2. Government Accession No.	3. Recipient's Catalog No.	
4. Title and Subtitle IH-35/DelMar Boulevard Interchange Study Laredo, Texas		5. Report Date February 1992	
		6. Performing Organization Code	
7. Author(s) James W. Hanks, Jr.		8. Performing Organization Report No. Research Report 1927-1F	
9. Performing Organization Name and Address Texas Transportation Institute Texas A&M University System College Station, Texas 77843-3135		10. Work Unit No.	
		11. Contract or Grant No. Study No. 2-21D-90-1927	
12. Sponsoring Agency Name and Address Texas Department of Transportation; Transportation Planning Division P.O. Box 5051 Austin, Texas 78763		13. Type of Report and Period Covered February 1992 - Final	
		14. Sponsoring Agency Code	
15. Supplementary Notes Research Performed in cooperation with Texas Department of Transportation Research Study Title: IH-35/DelMar Boulevard Interchange Study Laredo, Texas			
16. Abstract This research report evaluates the feasibility of implementing various interchange and intersection design alternatives at the IH-35/ Del Mar Boulevard interchange in Laredo, Texas. Alternatives considered the operation of the IH-35 frontage roads, the ramping configuration surrounding the interchange, access and egress to IH-35 from FM 1472, the interchange configuration and operation, FM 1472 alignment, and possible alternative connections. The design alternatives may be categorized by designs that either: 1) improve the operation and capacity of the interchange, 2) reduce vehicular demand at the interchange, or 3) provide an alternative route. Design alternatives are evaluated on the basis of benefit/cost and vehicle-hours of delay.			
17. Key Words Delay, Alternatives		18. Distribution Statement No restrictions. This document is available to the public through the National Technical Information Service 5285 Port Royal Road Springfield, Virginia 22161	
19. Security Classif. (of this report) Unclassified	20. Security Classif. (of this page) Unclassified	21. No. of Pages 132	22. Price



**IH-35/DEL MAR BOULEVARD INTERCHANGE STUDY  
LAREDO, TEXAS**

**by**

**James W. Hanks, Jr.  
Assistant Research Engineer**

**Research Report 1927-F**

**Research Study Number 2-21D-91-1927**

**Sponsored By**

**State Department of Highways  
and Public Transportation**

**Texas Transportation Institute  
The Texas A&M University System  
College Station, Texas**

**February 1992**



# METRIC (SI\*) CONVERSION FACTORS

## APPROXIMATE CONVERSIONS TO SI UNITS

Symbol	When You Know	Multiply By	To Find	Symbol
--------	---------------	-------------	---------	--------

### LENGTH

in	inches	2.54	centimetres	cm
ft	feet	0.3048	metres	m
yd	yards	0.914	metres	m
mi	miles	1.61	kilometres	km

### AREA

in <sup>2</sup>	square inches	645.2	centimetres squared	cm <sup>2</sup>
ft <sup>2</sup>	square feet	0.0929	metres squared	m <sup>2</sup>
yd <sup>2</sup>	square yards	0.836	metres squared	m <sup>2</sup>
mi <sup>2</sup>	square miles	2.59	kilometres squared	km <sup>2</sup>
ac	acres	0.395	hectares	ha

### MASS (weight)

oz	ounces	28.35	grams	g
lb	pounds	0.454	kilograms	kg
T	short tons (2000 lb)	0.907	megagrams	Mg

### VOLUME

fl oz	fluid ounces	29.57	millilitres	mL
gal	gallons	3.785	litres	L
ft <sup>3</sup>	cubic feet	0.0328	metres cubed	m <sup>3</sup>
yd <sup>3</sup>	cubic yards	0.0765	metres cubed	m <sup>3</sup>

NOTE: Volumes greater than 1000 L shall be shown in m<sup>3</sup>.

### TEMPERATURE (exact)

°F	Fahrenheit temperature	5/9 (after subtracting 32)	Celsius temperature	°C
----	------------------------	----------------------------	---------------------	----

## APPROXIMATE CONVERSIONS TO SI UNITS

Symbol	When You Know	Multiply By	To Find	Symbol
--------	---------------	-------------	---------	--------

### LENGTH

mm	millimetres	0.039	inches	in
m	metres	3.28	feet	ft
m	metres	1.09	yards	yd
km	kilometres	0.621	miles	mi

### AREA

mm <sup>2</sup>	millimetres squared	0.0016	square inches	in <sup>2</sup>
m <sup>2</sup>	metres squared	10.764	square feet	ft <sup>2</sup>
km <sup>2</sup>	kilometres squared	0.39	square miles	mi <sup>2</sup>
ha	hectares (10 000 m <sup>2</sup> )	2.53	acres	ac

### MASS (weight)

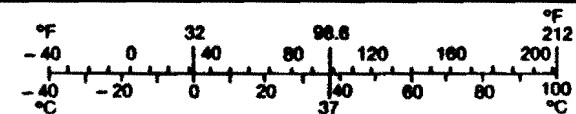
g	grams	0.0353	ounces	oz
kg	kilograms	2.205	pounds	lb
Mg	megagrams (1 000 kg)	1.103	short tons	T

### VOLUME

mL	millilitres	0.034	fluid ounces	fl oz
L	litres	0.264	gallons	gal
m <sup>3</sup>	metres cubed	35.315	cubic feet	ft <sup>3</sup>
m <sup>3</sup>	metres cubed	1.308	cubic yards	yd <sup>3</sup>

### TEMPERATURE (exact)

°C	Celsius temperature	9/5 (then add 32)	Fahrenheit temperature	°F
----	---------------------	-------------------	------------------------	----



These factors conform to the requirement of FHWA Order 5190.1A.

\* SI is the symbol for the International System of Measurements



## ABSTRACT

---

This research report evaluates the feasibility of implementing various interchange and intersection design alternatives at the IH-35/ Del Mar Boulevard interchange in Laredo, Texas. Alternatives considered the operation of the IH-35 frontage roads, the ramping configuration surrounding the interchange, access and egress to IH-35 from FM 1472, the interchange configuration and operation, FM 1472 alignment, and possible alternative connections. The design alternatives may be categorized by designs that either: 1) improve the operation and capacity of the interchange, 2) reduce vehicular demand at the interchange, or 3) provide an alternative route. Design alternatives are evaluated on the basis of benefit/cost and vehicle-hours of delay.

**Key Words:** Delay, Design Alternatives, Interchange, Ramps

## DISCLAIMER

---

The contents of this report reflect the views of the author who is responsible for the opinions, findings, and conclusions presented herein. The contents do not necessarily reflect the official views or policies of the Texas Department of Transportation. This report does not constitute a standard, specification, or regulation. Additionally, this report is not intended for construction, bidding, or permit purposes.



## SUMMARY

---

The IH-35/Del Mar Boulevard interchange experiences periods of severe congestion due to the geometric design of the interchange and heavy truck volumes. The interchange operations are complicated due to the existing geometrics. Essentially, the interchange is comprised of IH-35, Del Mar Boulevard, east and west frontage roads, FM 1472 and Old Santa Maria Road. Operations at the interchange are anticipated to further deteriorate in the future because of an increase in truck traffic resulting from a new international bridge currently under construction.

The objectives of this study are to develop and evaluate alternative designs that will provide acceptable levels of operation through the IH-35/Del Mar Boulevard interchange. Alternatives considered are the operation of the IH-35 frontage roads (east and west), the ramping configuration surrounding the interchange, access and egress to IH-35 from FM 1472, the interchange configuration and operation, FM 1472 alignment, and possible alternative connections.

This study evaluates design alternatives that could improve the operational effectiveness of the IH-35/Del Mar Boulevard interchange. The design alternatives may be categorized by designs that either: 1) improve the operation and capacity of the interchange, 2) reduce vehicular demand at the interchange, or 3) provide an alternative route. Figure 10 illustrates the existing interchange configuration and the movements provided at the interchange. Existing lane assignments and number of lanes are graphically shown in Figure 11. The single largest factor influencing the operation and the design alternatives of the IH-35/Del Mar Boulevard interchange is FM 1472 (Mines Road). FM 1472 is either the origin or destination for approximately 30 percent of the interchange traffic during the peak-periods.

Design alternatives were evaluated on the basis of benefit/cost and vehicle-hours of delay.

The combination of alternatives that would be the best solution to the congestion problem at the IH-35/Del Mar Boulevard interchange are:

- Optimumization of the signal timings.
- Capacity improvements along FM 1472, the west frontage road, and Del Mar Boulevard between IH-35 and Old Santa Maria Road.
- East and west frontage roads operated as one-way facilities.
- Construction of an at-grade connector ramp from FM 1472 to the southbound IH-35 mainlanes.

The construction of the Shilo interchange would provide an alternative route to Del Mar Boulevard, however, the overall impact of such a facility could not be determined within the scope of this study. The interchange would promote and extend the one-way frontage road system along IH-35 to FM 3464 (Milo Road). In addition, the extension of Shilo Road would provide a much needed east-west collector between Del Mar Boulevard and the proposed eastern loop.

## TABLE OF CONTENTS

---

Abstract .....	iii
Disclaimer .....	iv
Summary .....	v
List of Tables .....	viii
List of Figures .....	ix
Introduction .....	1
Problem Statement .....	1
Study Objectives .....	1
Study Design .....	3
Data Acquisition .....	4
Traffic Volumes .....	4
Origin-Destination Studies .....	4
Future Traffic Volumes .....	8
Alternative Development .....	13
Interchange Operational/Capacity Improvements .....	13
Base Alternative .....	13
Reduction of Vehicular Demand .....	27
Providing an Alternative Route .....	32
Benefit/Cost Analysis .....	34
Assumptions .....	34
Analysis .....	34
Recommendations .....	35

## LIST OF TABLES

---

Table 1. AADT Variation by Year .....	8
Table 2. Summary of Signal Timing and Delay Analysis (Interchange Operational and Capacity Alternative) .....	19
Table 3. Summary of Signal Timing and Delay Analysis (Reduction of Vehicular Demand Alternative) .....	26
Table 4. Incremental Benefit/Costs Analysis .....	36

## LIST OF FIGURES

---

Figure 1. Study Area .....	2
Figure 2. FM 3464 (Milo Road) .....	5
Figure 3. Del Mar Boulevard Interchange .....	6
Figure 4. IH-35/Del Mar Boulevard Interchange .....	7
Figure 5. O-D Study AM Inbound From FM 1432 .....	9
Figure 6. O-D Study PM Inbound From FM 1432 .....	9
Figure 7. O-D Study AM Outbound To FM 1432 .....	10
Figure 8. O-D Study PM Outbound To FM 1432 .....	10
Figure 9. Average Traffic Volume by Month for 1989 .....	12
Figure 10. Base Improvements .....	14
Figure 11. Existing Interchange Configuration .....	15
Figure 12. Existing Traffic Operations and Lane Assignments .....	16
Figure 13. Alternative 1A. Optimize Signal Timing and Ramp Relocation .....	18
Figure 14. Alternative 1B. Optimal Signal Timing, Ramp Relocation and One-Way (West) Frontage Road Operation .....	21
Figure 15. Traffic Movements and Lane Assignments, Alternative 1B .....	22
Figure 16. Alternative 1C. Optimal Signal Timing, Ramp Relocation and One-Way Frontage Road Operations .....	23
Figure 17. Traffic Movements and Lane Assignments, Alternative 1C .....	27
Figure 18. Alternative 2A Combined With Alternative 1C .....	28
Figure 19. Alternative 2B Combined With Alternative 1C .....	30
Figure 20. Alternative 2C Combined With Alternative 1C .....	31
Figure 21. Shilo Interchange - Alternative Route .....	33



## INTRODUCTION

---

In October 1990, District 21 (Pharr) of the State Department of Highways and Public Transportation (SDHPT) authorized the Texas Transportation Institute to conduct a study of the IH-35/Del Mar Boulevard interchange in Laredo, Texas. The study site is shown in Figure 1.

### **Problem Statement**

The IH-35/Del Mar Boulevard interchange experiences periods of severe congestion due to the geometric design of the interchange and heavy truck volumes. The interchange operations are complicated due to the existing geometrics. Essentially, the interchange is comprised of IH-35, Del Mar Boulevard, east and west frontage roads, FM 1472 and Old Santa Maria Road. Operations at the interchange are anticipated to further deteriorate in the future because of an increase in truck traffic resulting from a new international bridge currently under construction.

The Colombia-Laredo International Bridge, scheduled to open in June 1991, is located approximately 15 miles northwest of the IH-35/Del Mar Boulevard interchange on FM 1472 (Mines Road). It is anticipated that approximately 4,000 trucks per day will utilize the bridge and FM 1472 as a route into warehouse districts of Laredo. The warehouse district impacting the IH-35/Del Mar Boulevard interchange is located south of the interchange along Old Santa Maria Road.

### **Study Objectives**

The objective of this study is to develop and evaluate alternative designs that will provide acceptable levels of operation through the IH-35/Del Mar Boulevard interchange. Alternatives considered are the operation of the IH-35 frontage roads (east and west), the

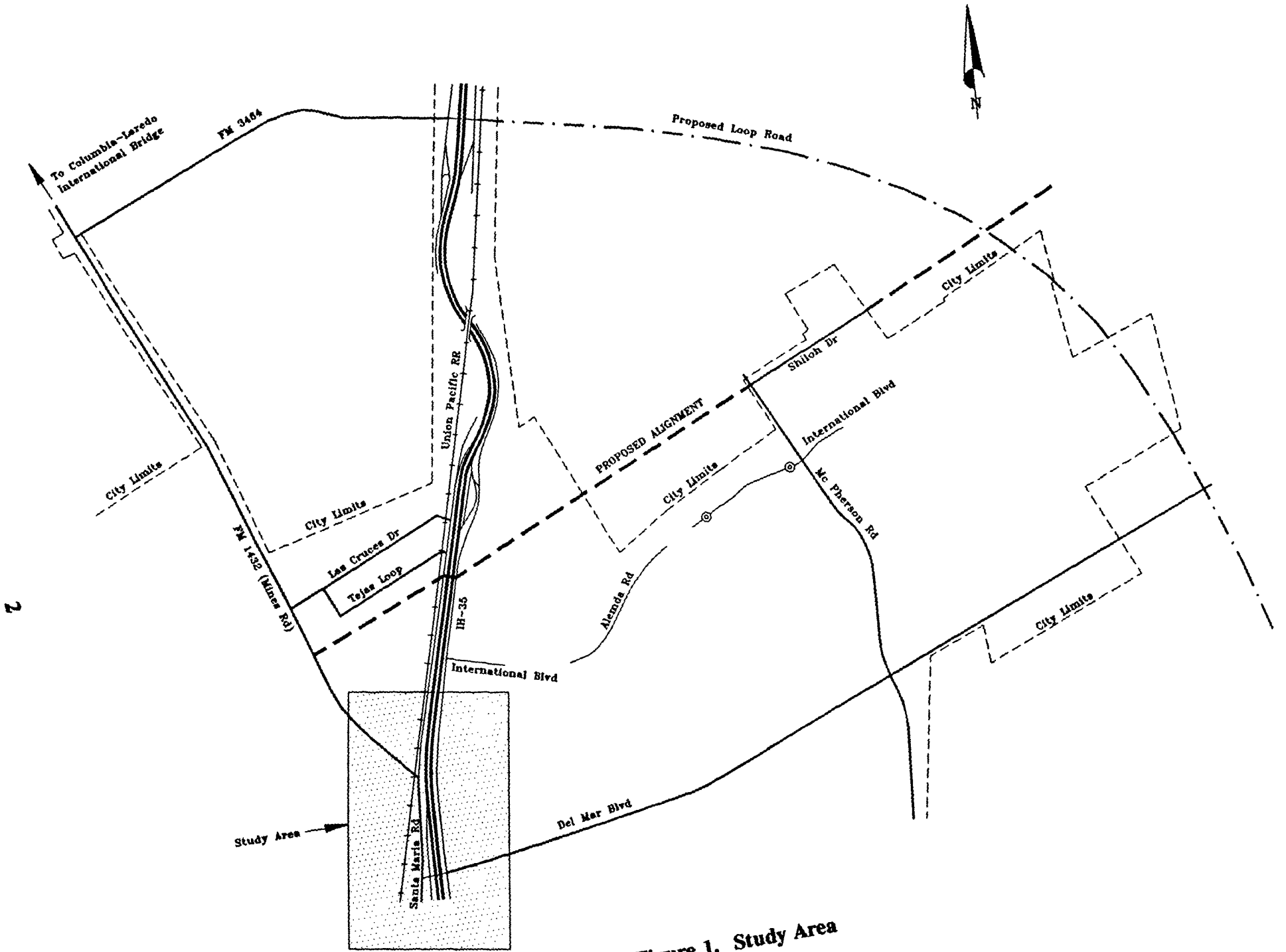


Figure 1. Study Area



ramping configuration surrounding the interchange, access and egress to IH-35 from FM 1472, the interchange configuration and operation, FM 1472 alignment, and possible alternative connections.

### **Study Design**

The study is comprised of three major tasks including: 1) data collection, 2) alternative analysis, and 3) production of a report documenting study findings and recommendations. This section briefly discusses the tasks of data collection and alternative analysis.

The data collected for the purpose of evaluating and analyzing the IH-35/Del Mar Boulevard interchange included: 1) traffic counts, 2) manual turning movement counts, and 3) an origin-destination study. Eighteen, 24-hour, machine traffic counts were collected. The counts were made at locations in both the Del Mar Boulevard and FM 3464 (Milo) interchanges, the frontage roads in the vicinity of these interchanges, and along FM 1472 (Mines Road) and Old Santa Maria Road. In addition to the machine counts, traffic movements in and around the IH-35/Del Mar Boulevard interchange were analyzed by turning movement counts and an origin-destination study.

Using the data to determine the existing operations of the IH-35/Del Mar Boulevard interchange, alternative designs were developed and evaluated. Alternatives were evaluated relative to geometric alignment, existing and future traffic volumes, capacity needs, and system consistency. Specifically, the following alternatives were addressed: 1) optimizing the signal timings, 2) one-way frontage road operations, 3) ramp relocations, and 4) the addition of an interchange between Del Mar Boulevard and FM 3464 (Milo Road).



## DATA ACQUISITION

---

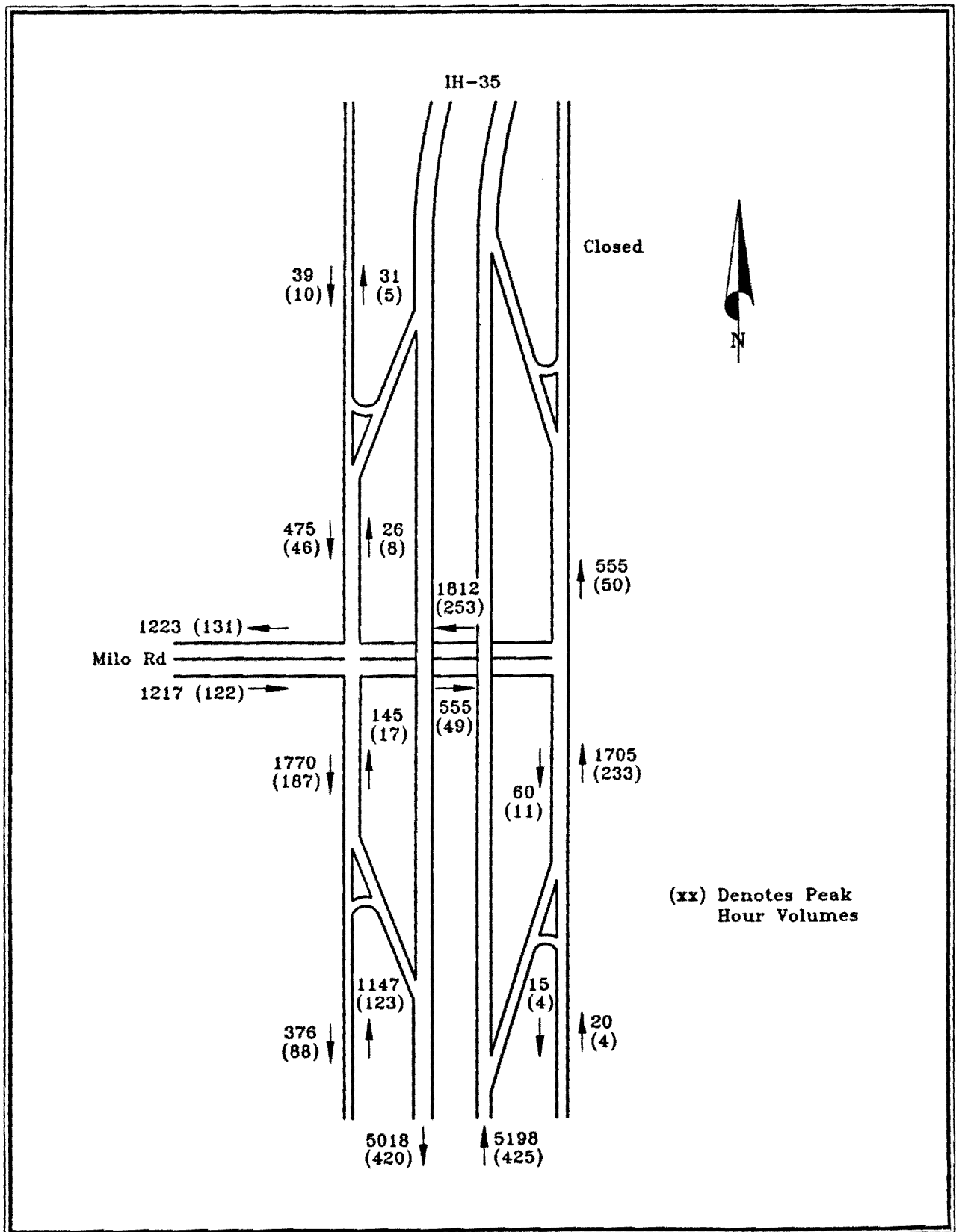
Data collection for this study was conducted November 12-16, 1990. During this period the following data were collected: 1) 24-hour traffic counts, 2) a small origin-destination study, and 3) intersection turning movement counts. Appendix A contains a listing of the axle count data that was collected. A factor of 2.75 axles/vehicle was applied to determine traffic volumes. These data were used to determine the existing traffic patterns in the study area and for alternative evaluations.

### Traffic Volumes

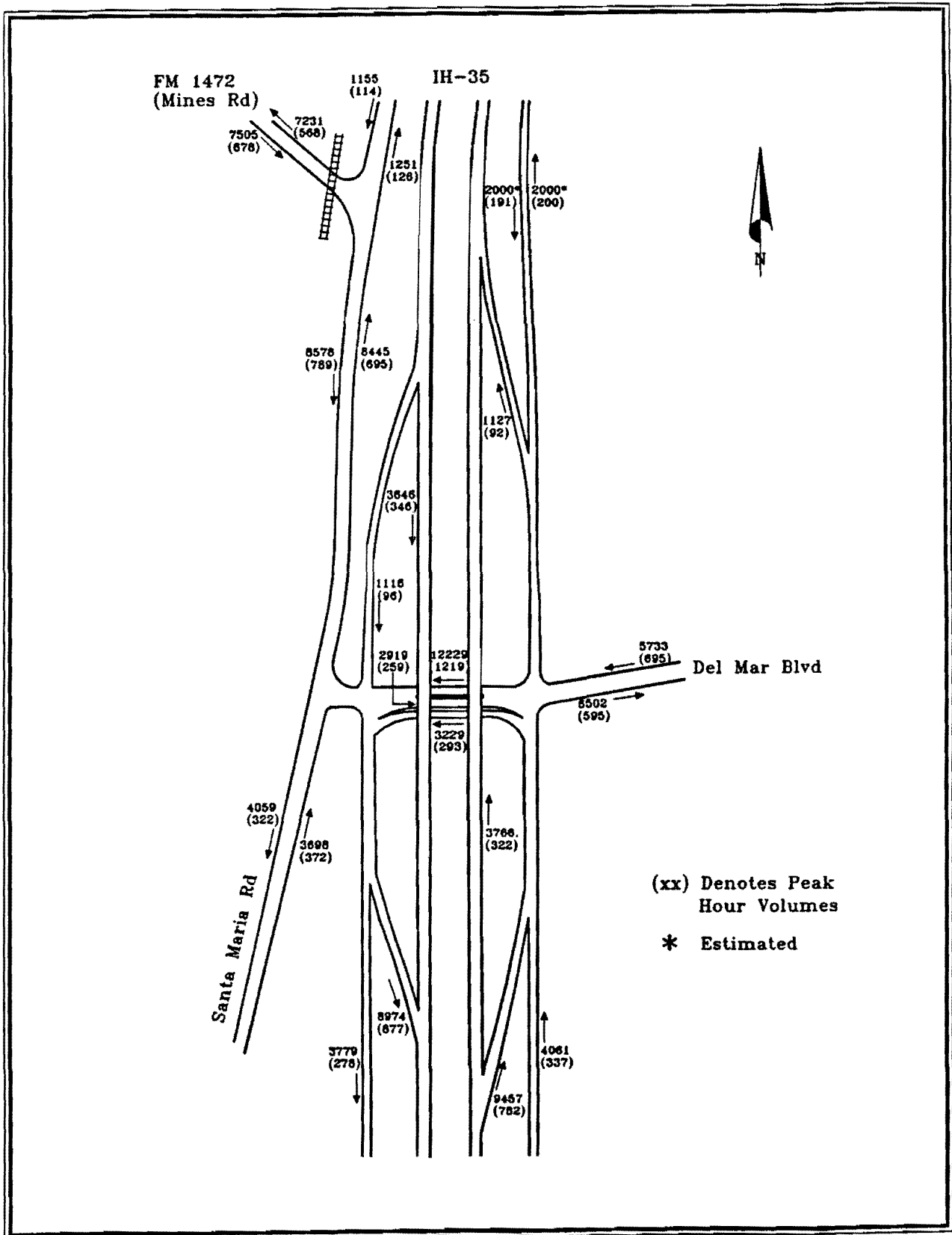
The existing November 1990 traffic volumes of IH-35 mainlanes, ramps and frontage roads were collected using mechanical counters for a 24-hour period at the Milo Road interchange and at the Del Mar interchange area. The 24-hour and peak hour volumes were converted to reflect the 1990 ADT and peak hour (Figures 2 and 3). Turning movement volumes at the Del Mar Boulevard and Mines Road areas were collected using video cameras. Turning movement data were collected during the morning peak period (7:00-9:00 am) and the evening peak period (3:30-5:30 pm). The peak hour turning volumes for each period are shown in Figure 4.

### Origin-Destination Studies

Origin-destination (O-D) studies were used to determine the general traffic pattern in the study area. These O-D studies were conducted using video cameras to record the license plates of vehicles passing through two points during the peak morning and afternoon periods. The tapes were played at a reduced speed in order to code the passing license numbers with a high degree of accuracy. Once the license were recorded and locations were designated as upstream or downstream, a TTI developed license matching program was used to determine the number and percentage of vehicles that belong to the two input sets. The



**Figure 2. FM 3464 (Milo Road)  
ADT and Peak Hour Traffic Volumes**



**Figure 3. Del Mar Boulevard Interchange  
 ADT and Peak Hour Traffic Volumes**

L

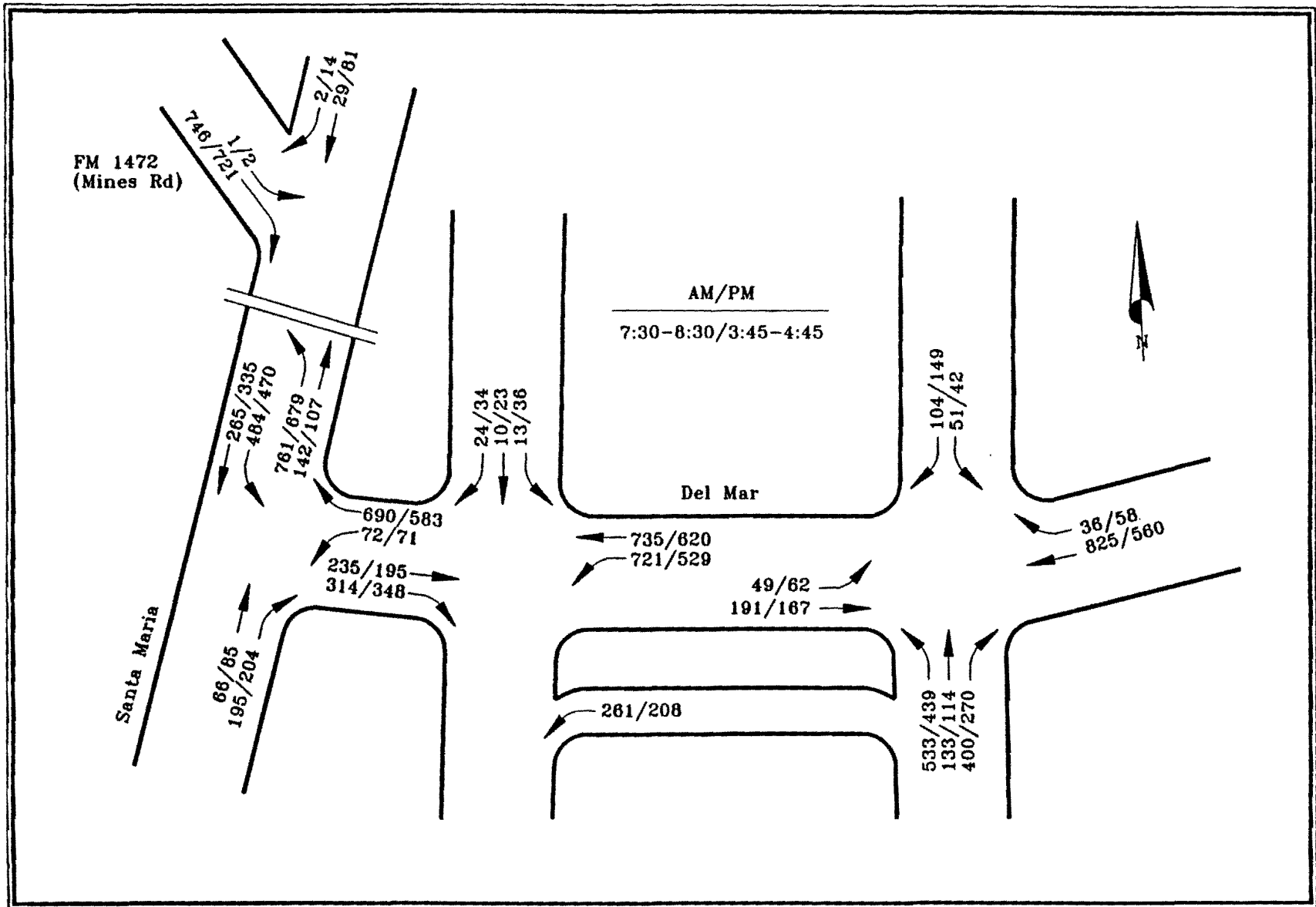


Figure 4. IH-35/Del Mar Boulevard Interchange  
Turning Movements

license numbers that were contained in both upstream and downstream groups yielded the volume of vehicles that came from one location (origin) and went to another (destination). Figures 5 and 6 indicate the results of the O-D study for inbound FM 1472 traffic during the morning and evening peak periods, respectively. Figures 7 and 8 show the results of the O-D study for outbound FM 1472 traffic for the same periods.

### **Future Traffic Volumes**

Traffic volumes for the year 2011 were calculated using the population growth expectancies found in a previous TTI report (1). The report projected population in District 21 to increase 117 percent between 1985 and 2005, which corresponds to an annual growth rate of 4 percent. This projected growth may seem high when compared to a traditional Texas average of 2 percent per year. This value may, however, underestimate future demand in view of historic traffic volumes on IH-35. An automatic traffic recorder (ATR) is located just north of the FM 1472 interchange. Table 1 shows that the average annual daily traffic (AADT) and percentage variation by year. The average compounded growth rate for the available data since 1983 has been 8 percent.

**Table 1. AADT Variation by Year**

Year	AADT	% Increase
1983	4746	4.6
1984	4927	3.8
1985	5071	2.9
1986	5442	7.3
1987	5857	7.6
1988	6835	16.7
1989	7635	11.7

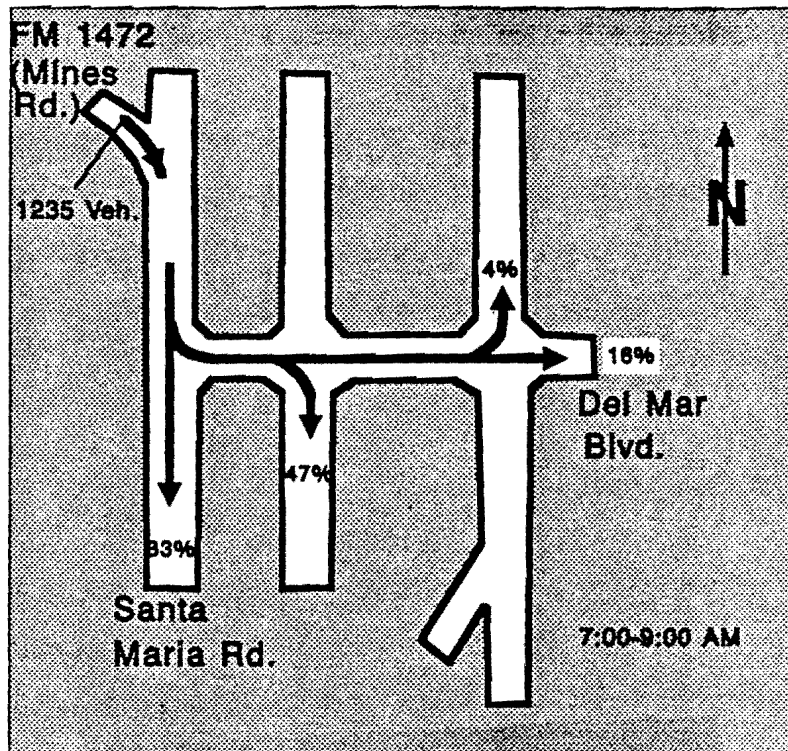


Figure 5. O-D Study  
 AM Inbound From FM 1432

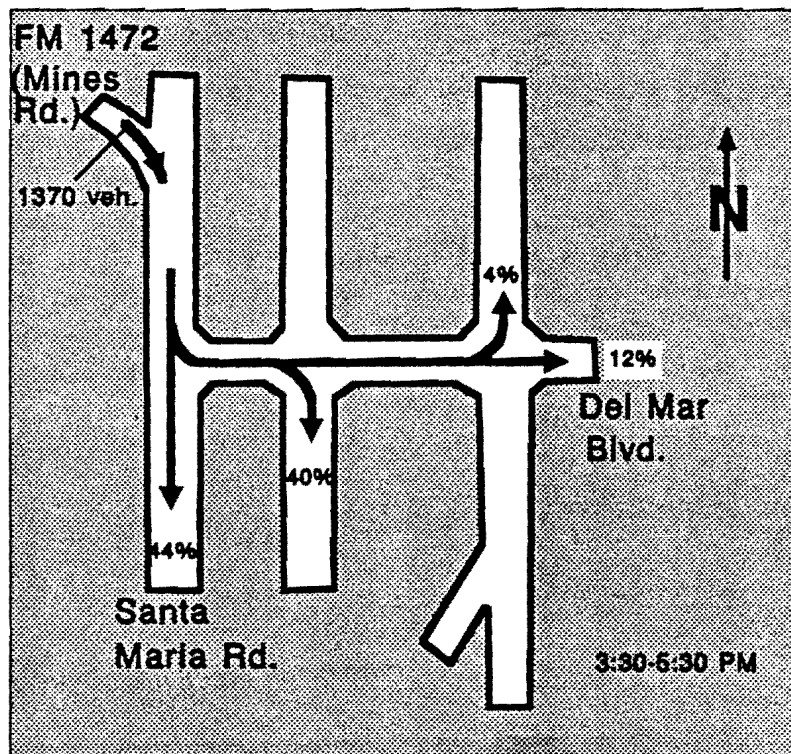


Figure 6. O-D Study  
 PM Inbound From FM 1432



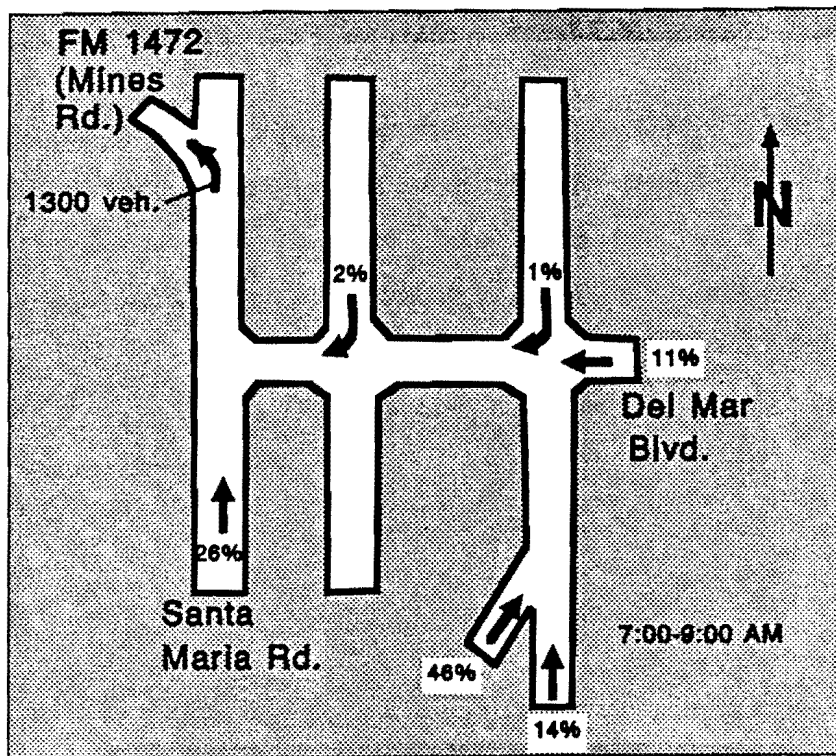


Figure 7. O-D Study  
AM Outbound To FM 1432

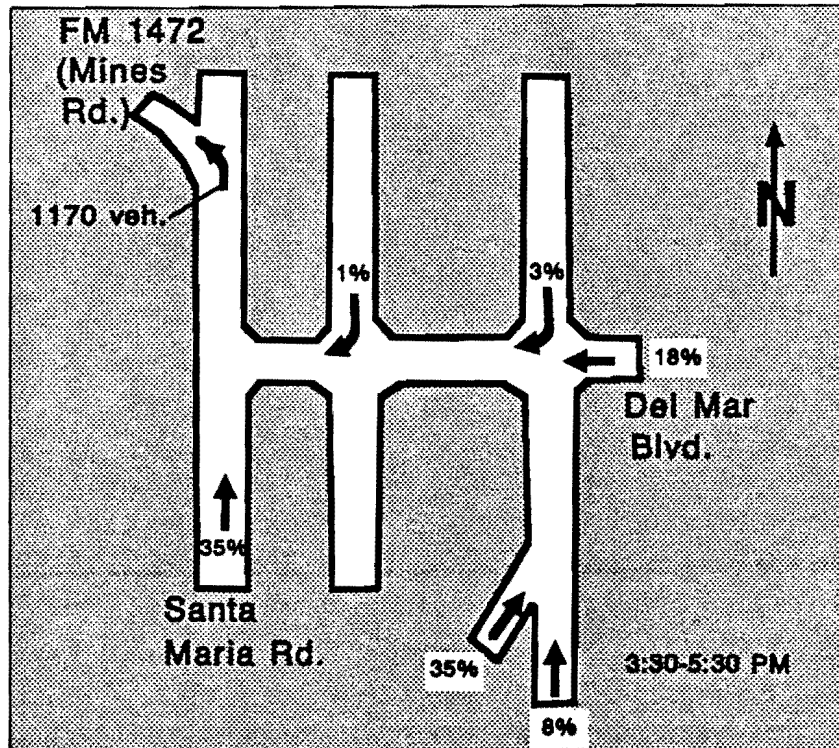
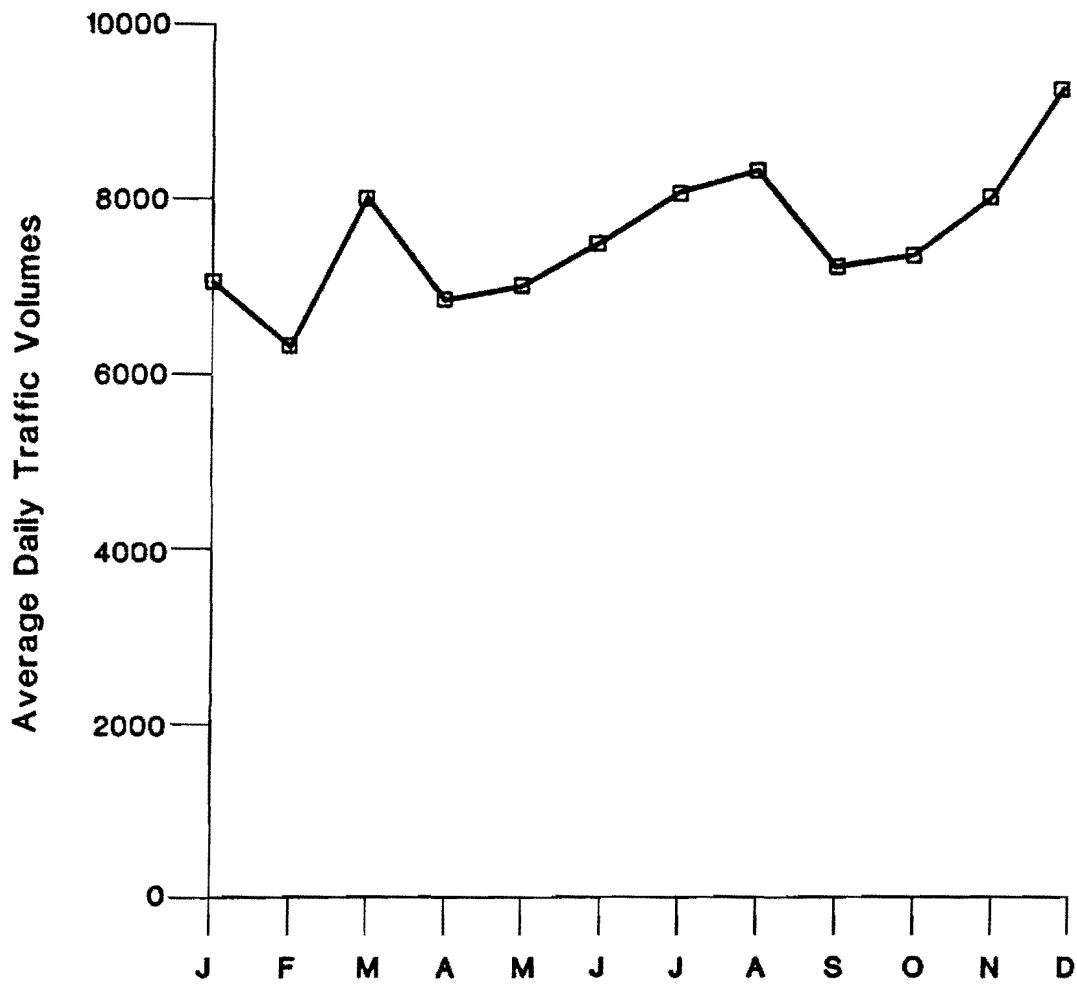


Figure 8. O-D Study  
PM Outbound To FM 1432

The ATR data for IH-35 also indicated that during the month of November (the month during which data were collected for this study) the average weekday traffic volumes (Mon.-Thurs.) were approximately 101 percent of the AADT. Figure 9 shows that the peak AADT occurs during the month of December. During this month, the average weekday volumes were 123 percent of the AADT.



**Figure 9. Average Traffic Volumes by Month For 1989**



## **ALTERNATIVE DEVELOPMENT**

---

This section discusses design alternatives that could improve the operational effectiveness of the IH-35/Del Mar Boulevard interchange. The design alternatives may be categorized by designs that either: 1) improve the operation and capacity of the interchange, 2) reduce vehicular demand at the interchange, or 3) provide an alternative route. Figure 10 illustrates the existing interchange configuration and traffic movements. Existing lane assignments and number of lanes are graphically shown in Figure 11. The single largest factor influencing the operation and the design alternatives of the IH-35/Del Mar Boulevard interchange is FM 1472 (Mines Road). FM 1472 is either the origin or destination for approximately 30 percent of the interchange traffic during the peak-periods, Figure 4.

### **Interchange Operational/Capacity Improvements**

The three alternatives in this category focus on operational improvements and added capacity through the IH-35/Del Mar Boulevard interchange. These alternatives are founded on a base alternative that must first be implemented prior to significantly improving interchange operations.

### **Base Alternative**

Due to the complicated maneuvers required by drivers utilizing the interchange, additional capacity along the west frontage road and FM 1472 is required prior to greatly improving interchange operations. Figure 12 illustrates the recommended base improvements. The improvements outlined by this base alternative include:

- Widening the west frontage road between FM 1472 and Del Mar Boulevard to four lanes.
- Widen the FM 1472 approach to the west frontage road to four lanes.

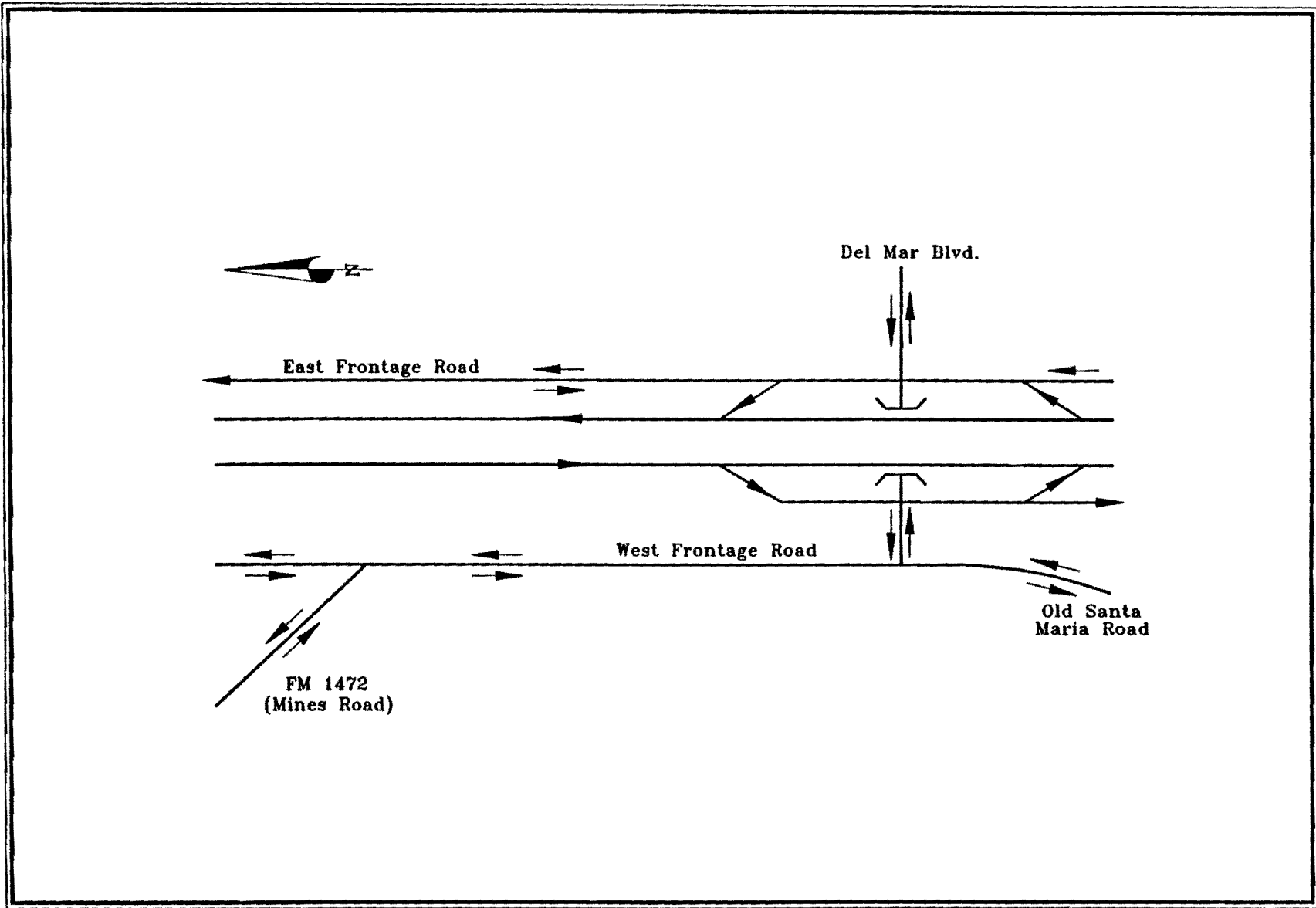


Figure 10. Existing Interchange Configuration

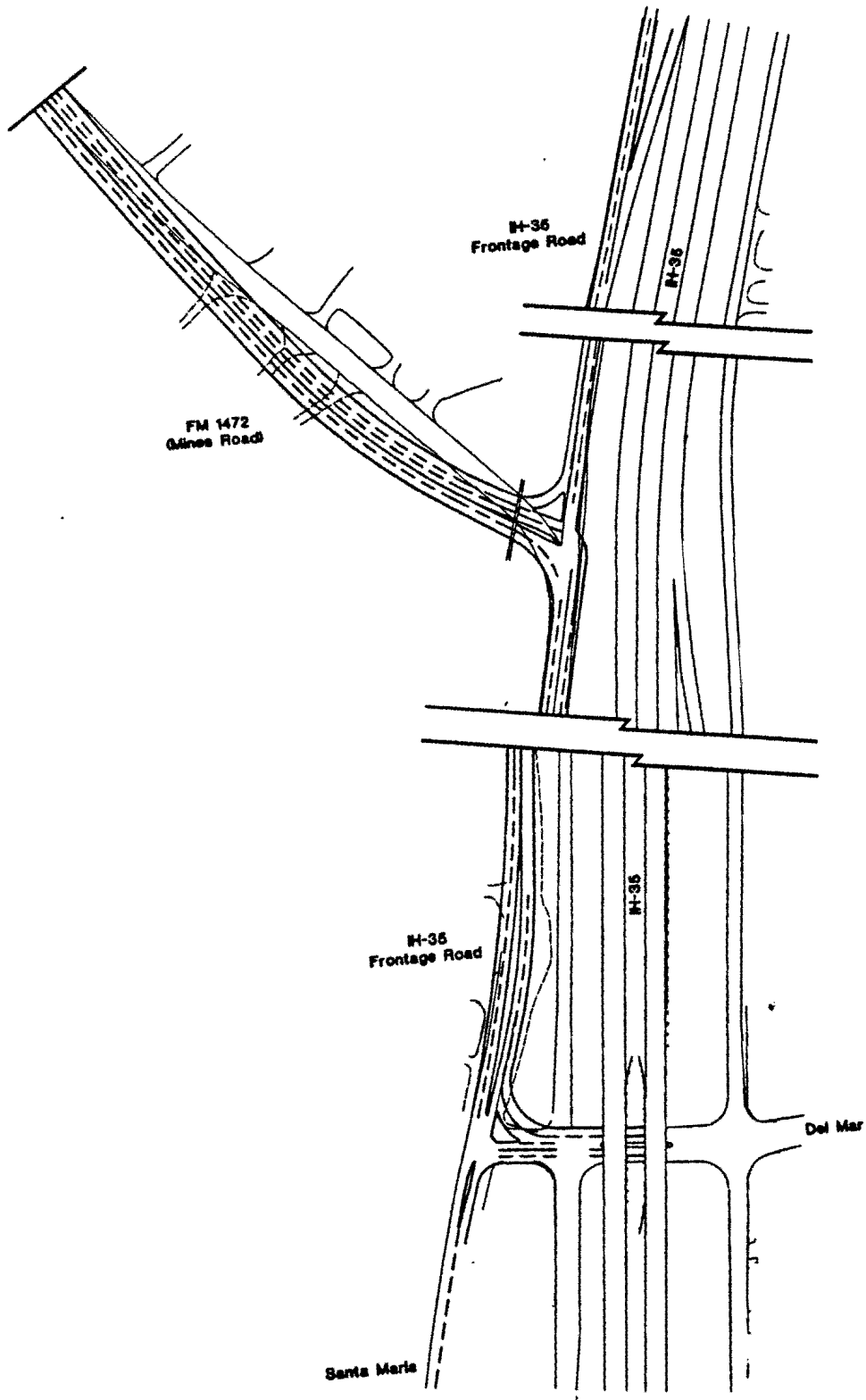


Figure 11. Base Improvements

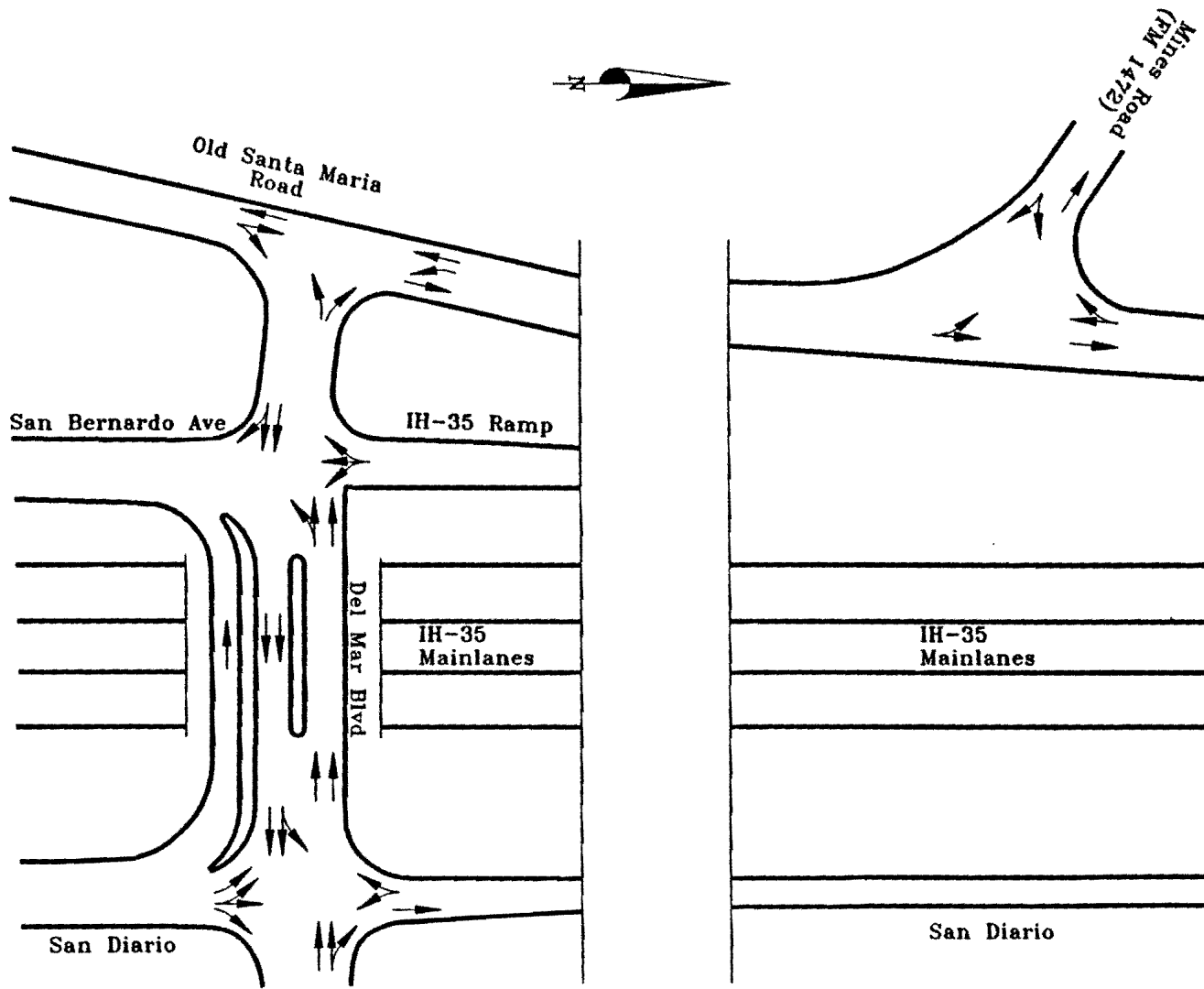


Figure 12. Existing Traffic Operations and Lane Assignments



- Widening Del Mar Boulevard west of the IH-35 structure to a five lane section.
- Improving the west bound Del Mar Boulevard radius to the west frontage road to accommodate large vehicles.

This alternative represents an estimated \$1.3 million dollars of construction. The capacity improvements are necessary, however, to implement lasting solution enhancing interchange operations.

**Alternative No. 1A:**

Alternative No. 1 utilizes the base alternative cross section and interchange geometric configuration with the exception of the IH-35 southbound Del Mar Boulevard exit ramp (Figure 13). The major aspects of this alternative include:

- Relocation of the existing IH-35 exit ramp to simplify interchange operations and signal phasing.
- Optimization of the signal timing at the Del Mar Boulevard interchange.

Relocating the IH-35 southbound exit ramp for Del Mar Boulevard to the north will remove approximately 96 vehicles per day from the immediate area of the interchange. While 96 vehicles can not be considered a significant reduction in the overall volume, removing the exit ramp will eliminate one approach and one phase within the interchange. Figure 4 indicates that approximately 30 and 50 percent of the ramp traffic during the afternoon and morning peak hours, respectively, utilizes Mines Road (FM 1472).

The effects of optimizing the signals at the Del Mar Boulevard interchange are illustrated in Table 2. The existing cycle length ranges between 125 seconds (a.m.) and 145 seconds (p.m.). Optimizing the signal timing requires varying the cycle length between 70 and 90 seconds depending on the time of day and vehicular demand (Table 2). Implementation of

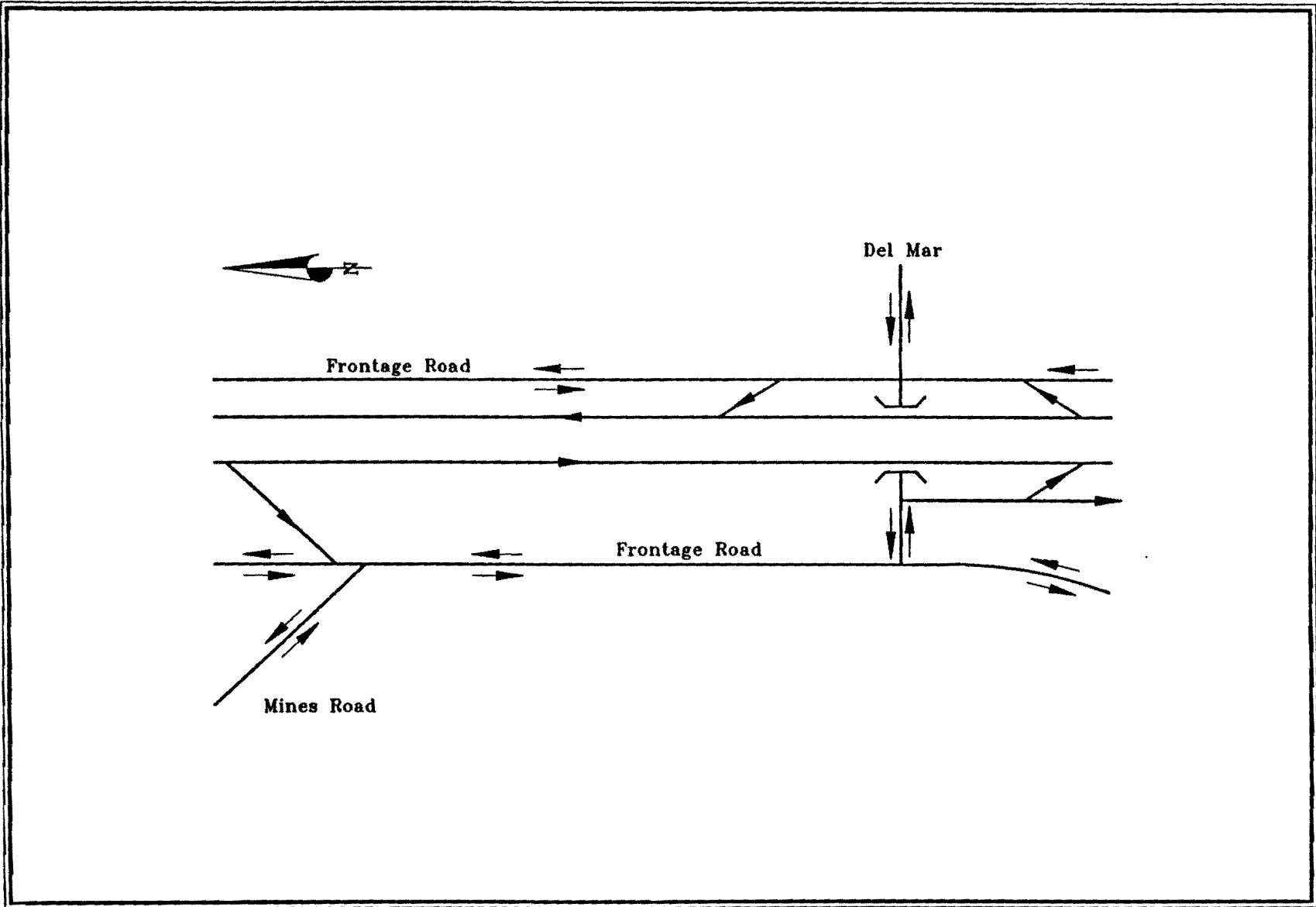


Figure 13. Alternative 1A. Optimize Signal Timing and Ramp Relocation

**Table 2. Summary of Signal Timing and Delay Analysis  
(Interchange Operational and Capacity Alternatives)**

Alternative	AM First Hour		AM Second Hour		PM First Hour		PM Second Hour		Total Delay (Veh-Hrs)
	Tot. Delay (Veh-Hrs)	Cycle (Sec)	Tot. Delay (Veh-Hrs)	Cycle (Sec)	Tot. Delay (Veh-Hrs)	Cycle (Sec)	Tot. Delay (Veh-Hrs)	Cycle (Sec)	
Do Nothing (Existing) Existing Geometrics Existing Timing Year 1991	42	125	49	125	62	145	56	145	211
Year 2011	738	125	1056	125	1242	145	1096	145	4132
Alternative 1A Existing Geometrics Optimized Timing Year 1991	34	70	40	90	50	85	43	85	167
Year 2011	656	180	966	180	1230	180	1085	180	3938
Alternative 1B Remove Exit Ramp (SB) Add Signal @ FM 1472 West Frt. Rd. 1-Way Year 1991	25	70	27	90	32	85	27	85	111
Year 2011	434	170	463	145	519	180	429	180	1845
Alternative 1C Remove Exit Ramp (SB) Add Signal @ FM 1472 West Frt. Rd. 1-Way East Frt. Rd. 1-Way Year 1991	18	70	19	75	20	70	18	70	73
Year 2011	218	180	238	145	276	125	168	125	900

Alternate 1A results in approximately 20 percent less vehicle hours of delay within the interchange.

**Alternative No. 1B:**

Alternative No. 1B (Figure 14) has the same primary focus as Alternative No. 1A. However, the major characteristics of this alternative include:

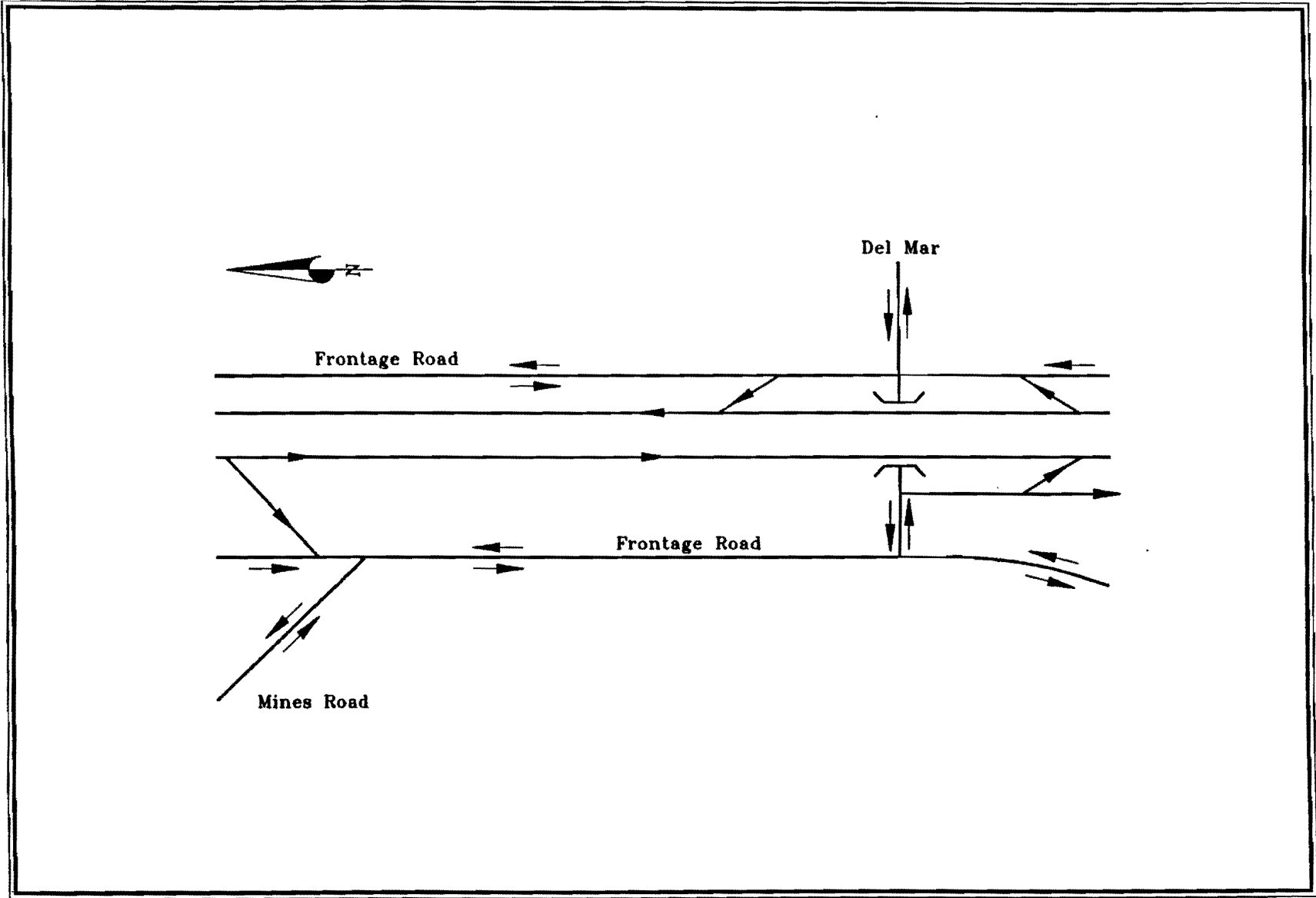
- Relocation of the existing IH-35 Del Mar Boulevard exit ramp north of FM 1472,
- Optimization of signal timing,
- Signalizing the intersection of FM 1472 and west frontage road, and
- Operating the west frontage road north of FM 1472 as one-way.

The merits of ramp relocation and signal optimization were discussed in the preceding alternative discussion. These merits (vehicle hours of delay) are magnified by the signalization of FM 1472 and one-way frontage road operations. As shown in Table 2, the implementation of Alternative No. 1B would result in a reduction in vehicle-hours of delay of approximately 35 percent during the a.m. peak hours and in excess of 40 percent during p.m. peak hours. Figure 15 illustrates the movements provided by this alternative.

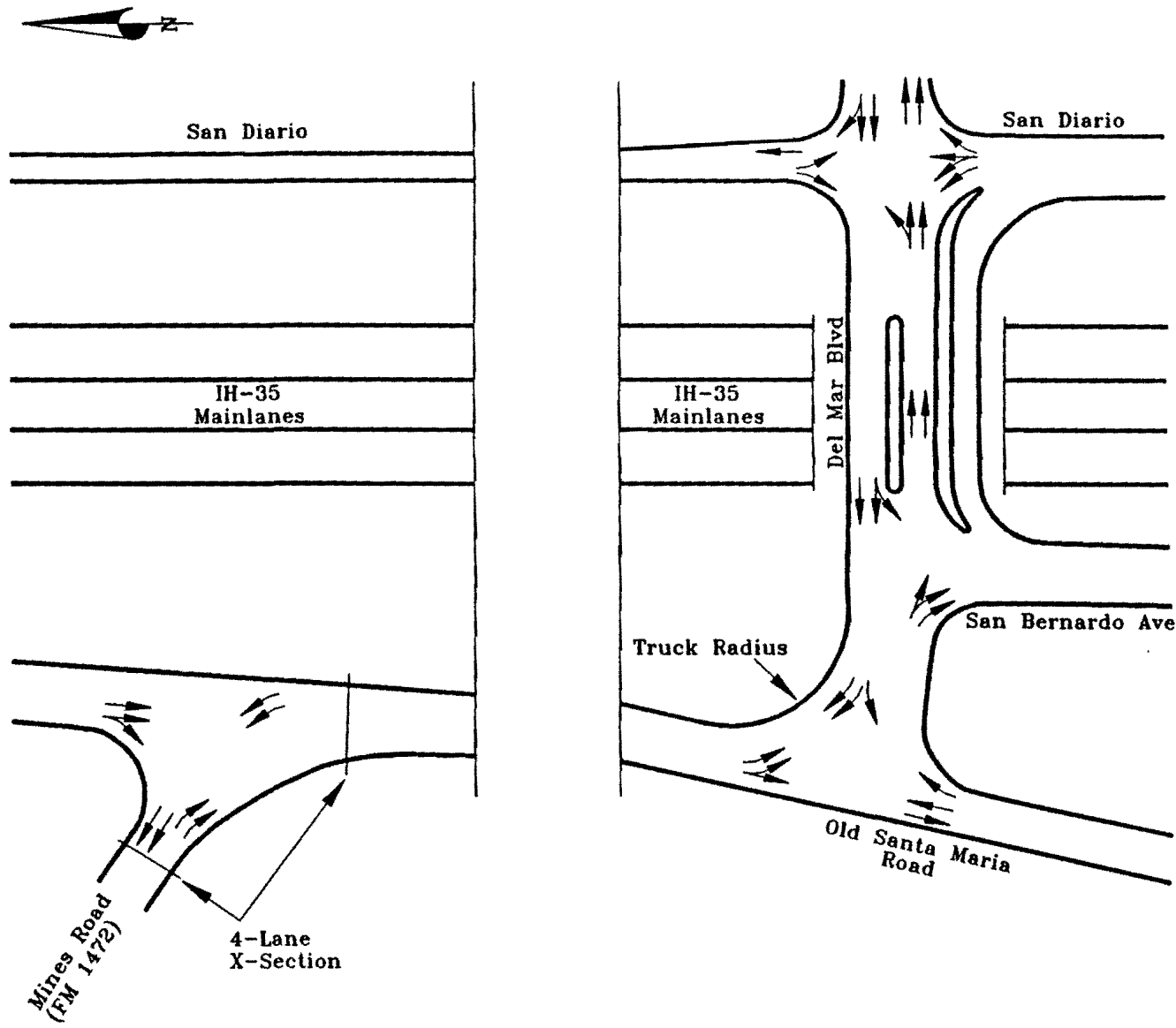
**Alternative No. 1C:**

Alternative No. 1C (Figure 16) essentially expands the previously discussed alternatives. The characteristics of this alternative include:

- Relocation of the existing IH-35 Del Mar Boulevard exit ramp north of FM 1472,
- Optimization of signal timing,
- Signalizing the intersection of FM 1472 and west frontage road,
- Operating the west frontage road north of FM 1472 as one-way and,
- Operating the east frontage road north of Del Mar as one-way.



**Figure 14. Alternative 1B. Optimal Signal Timing, Ramp Relocation, and One-Way (West) Frontage Road Operation**



**Figure 15. Traffic Movements and Lane Assignments (Alternative 1B)**

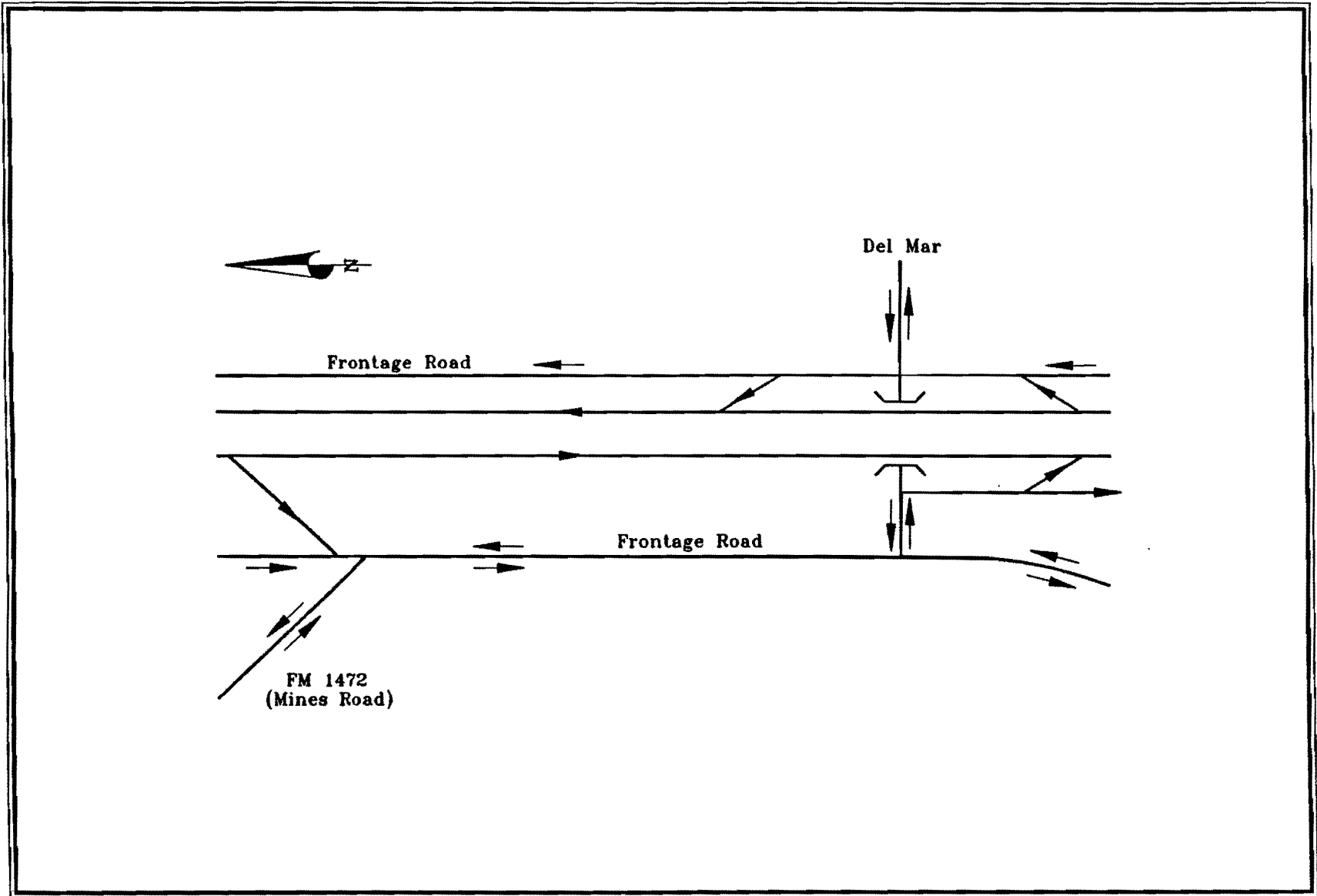


Figure 16. Alternative 1C. Optimal Signal Timing, Ramp Relocation, and One-Way Frontage Road Operations

Figure 17 illustrates the traffic movements within the IH-35/Del Mar Boulevard interchange provided by Alternative No. 1C. Implementation of this alternative would reduce the existing vehicle-hours of delay by approximately 50 percent during the a.m. and p.m. peak-hours at the Del Mar interchange. However, without the extension of International Blvd to the east and the construction of Spring Road north of Del Mar Blvd., or the construction of an interchange along the Shiloh Dr. alignment, this alternative will produce undesirable delays. The delays are a result of the additional travel time incurred by the proposed one-way east side frontage road traffic required to travel to FM 3464 and make a "u-turn" in order to travel south.

### **Summary**

The operational/capacity improvement alternatives represent low cost tsm type solutions to the congested conditions at the IH-35/Del Mar Boulevard interchange. The estimated costs of these alternatives are as follows:

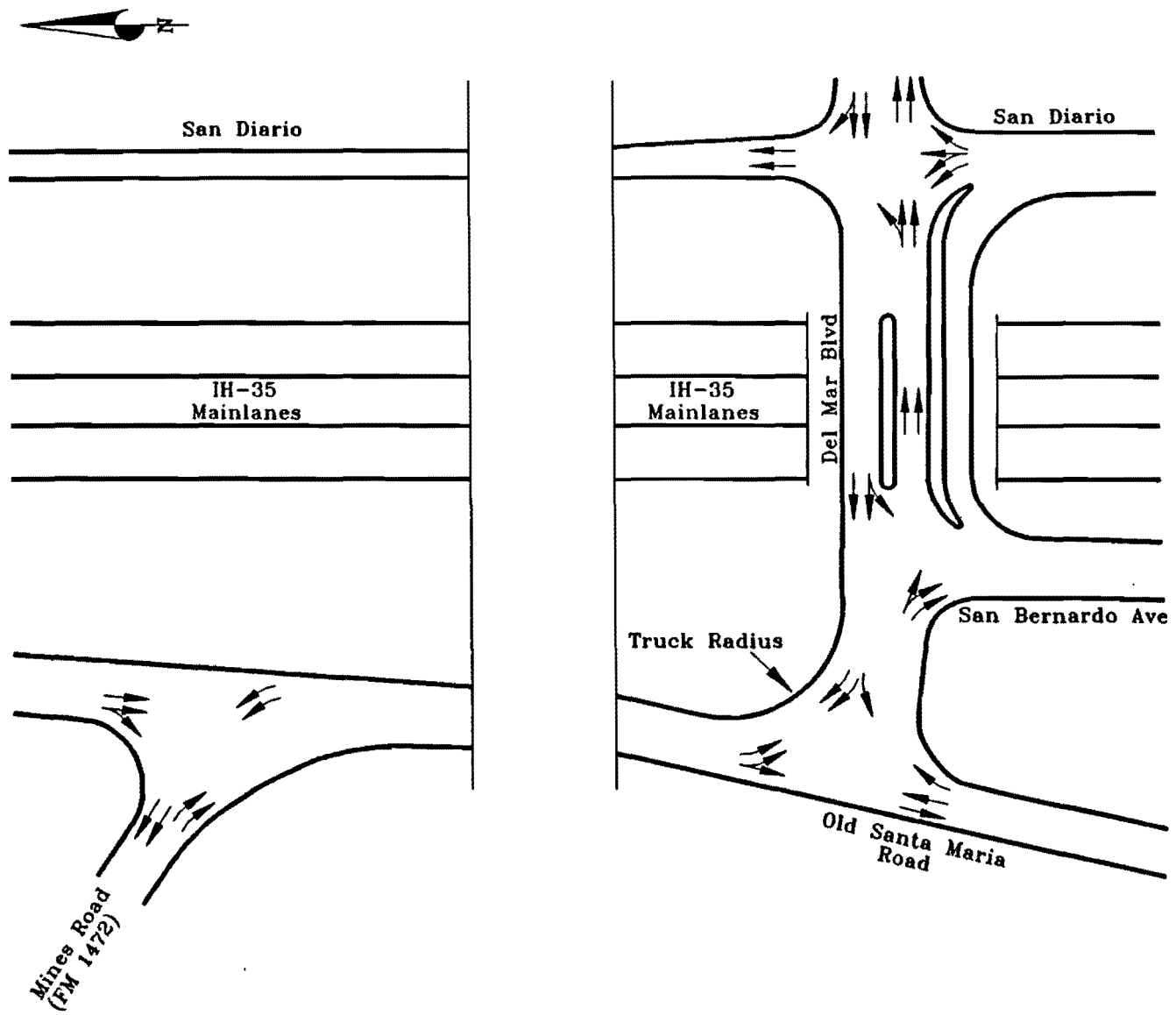
- Ramp relocation: \$500,000
- Signal installation: \$200,000

The alternatives described in this section are not necessarily independent of one another. Alternatives Nos. 1A, 1B, and 1C may be implemented as staged construction.

Alternative 1B offers the largest reduction of delay if no other improvements are made on the eastside of IH 35 (the extension of International and the construction of Spring Rd. or the construction of an interchange along the Shiloh Rd. alignment).

It should be noted, while these alternatives offer methods to significantly alleviate existing congestion, the long term effects are less momentous. Table 3 illustrates the effects the operational/capacity improvements (various alternatives) for the existing and 20 year predicted traffic volumes (3 percent annual growth rate). The average vehicle-hours of delay will increase approximately 400 percent by the year 2011 even with the implementation of Alternative No. 1B or 1C.





**Figure 17. Traffic Movements and Lane Assignments  
(Alternative 1C)**

**Table 3. Summary of Signal Timing and Delay Analysis  
(Reduction of Vehicular Demand Alternatives)**

Alternative	AM First Hour		AM Second Hour		PM First Hour		PM Second Hour		Total Delay (Veh-Hrs)
	Tot. Delay (Veh-Hrs)	Cycle (Sec)	Tot. Delay (Veh-Hrs)	Cycle (Sec)	Tot. Delay (Veh-Hrs)	Cycle (Sec)	Tot. Delay (Veh-Hrs)	Cycle (Sec)	
Existing Existing Geometrics Existing Timing Year 1991	42	125	49	125	62	145	58	145	211
Year 2011	738	125	1056	125	1242	145	1066	145	4132
Alternative 2A Combined with Alt. 1A Year 1991	28	70	31	70	41	85	34	70	134
Year 2011	487	180	685	180	925	180	712	180	2809
Alternative 2A Combined with Alt. 1B Year 1991	28	85	25	70	29	85	25	70	105
Year 2011	420	170	440	180	508	170	423	180	1789
Alternative 2A Combined with Alt. 1C Year 1991	18	75	17	70	18	70	16	70	89
Year 2011	212	180	265	115	220	180	120	180	817
Alternative 2B Combined with Alt. 1A Year 1991	22	70	24	70	33	70	31	85	111
Year 2011	231	180	240	180	484	180	348	180	1304
Alternative 2B Combined with Alt. 1B Year 1991	21	75	21	75	25	70	23	70	89
Year 2011	248	180	267	180	447	125	308	175	1271
Alternative 2B Combined with Alt. 1C Year 1991	14	70	15	70	17	70	15	70	81
Year 2011	69	145	82	150	108	180	78	180	335
Alternative 2C Combined with Alt. 1A Year 1991	22	70	24	70	33	70	31	85	111
Year 2011	204	180	217	180	487	180	317	180	1208
Alternative 2C Combined with Alt. 1B Year 1991	20	70	21	70	27	80	23	75	92
Year 2011	252	180	273	145	400	180	307	145	1231
Alternative 2C Combined with Alt. 1C Year 1991	15	70	16	75	19	70	16	70	86
Year 2011	75	140	83	170	118	175	78	145	350

## **Reduction of Vehicular Demand**

As previously mentioned, FM 1472 traffic represents a significant portion of the IH-35/Del Mar Boulevard interchange traffic. A significant amount of the FM 1472 traffic originates from or is destined for IH-35 (Figures 5, 6, 7, and 8).

The design alternatives discussed in this section provide methods of reducing the volume of traffic required to utilize the IH-35/Del Mar Boulevard interchange. Table 3 shows the optimized signal timings and estimated vehicle-hours of delay for each combination of alternative discussed in this section. It should be noted that the delay values shown in Table 3 for alternatives that include 1C, only contain the intersection delay and not the additional delay produced by the east frontage traffic having to travel to FM 3464 in order to travel south on IH 35. Both of the following design alternatives are based on the implementation of the base alternative. In addition, each of the following alternatives may be implemented in conjunction with any of the previously mentioned alternatives.

### **Alternative No. 2A:**

This design alternative provides a direct connector between FM 1472 and the southbound IH-35 mainlanes (Figure 18). The direct connector consists of an at-grade ramp occupying the same general location of the existing exit ramp. Construction of this alternative would remove an estimated 580 vehicles from the interchange during the morning peak-period. In addition, 550 vehicles would also be accommodated during the afternoon peak-period. The projected ramp ADT for the southbound entrance from Mines Road was estimated using  $k=0.10$ .

### **Alternative No. 2B:**

Alternative No. 2B provides both northbound and southbound direct connectors from FM 1472 to IH-35 (Figure 19). The southbound IH-35 connector is an at-grade ramp described

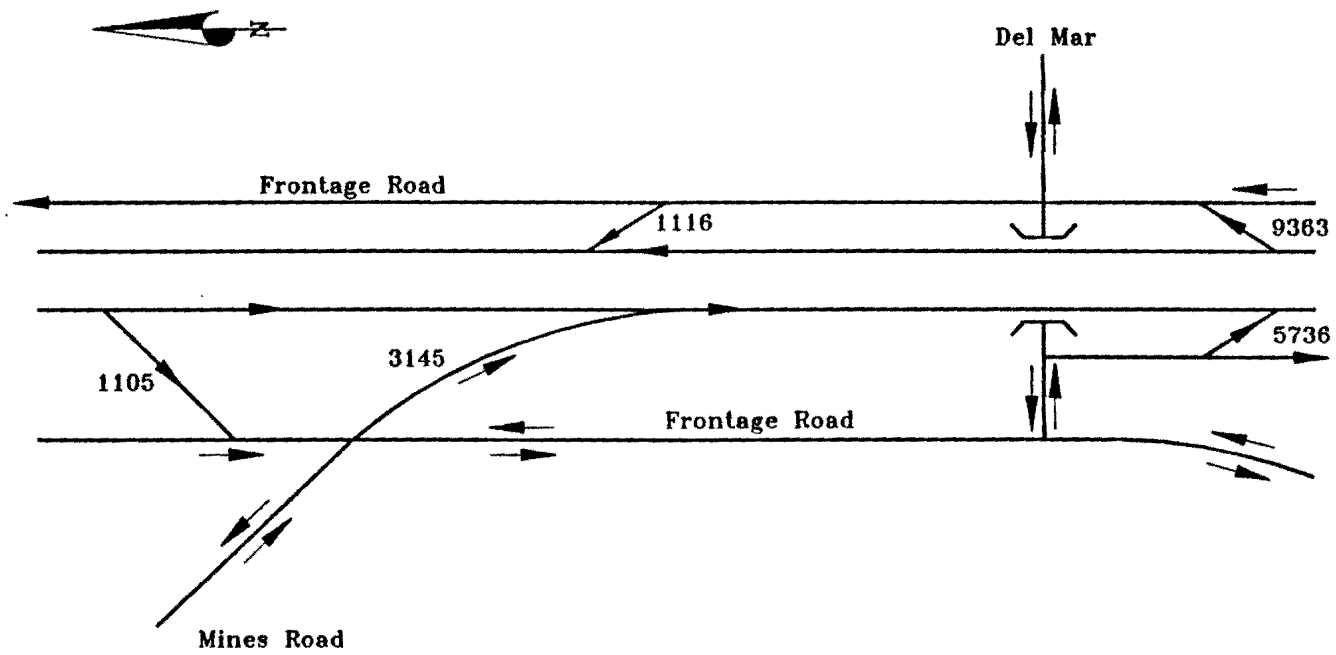


Figure 18. Alternative 2A Combined With Alternative 1C

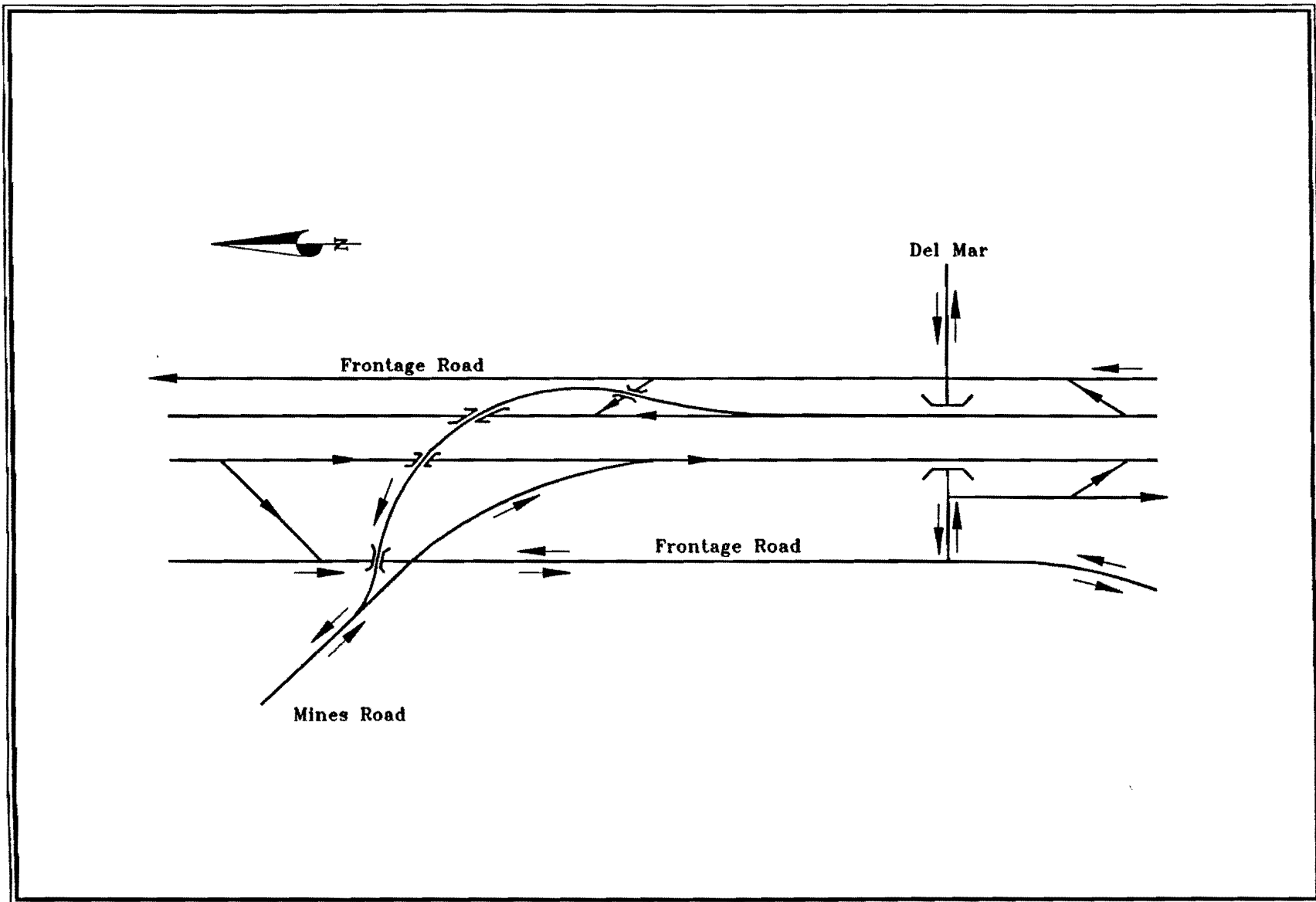


Figure 19. Alternative 2B Combined With Alternative 1C

in Alternative No. 2A. The ramp providing the northbound IH-35 connection is an elevated ramp crossing over the IH-35 mainlanes.

The demand reduction associated with the southbound IH-35 connector ramp, approximately 600 additional vehicles during the morning peak-period, would be removed from the interchange. During the afternoon peak-period, approximately 400 vehicles could by-pass the IH-35/Del Mar Boulevard interchange. A significant problem, currently existing, is addressed by the northbound IH-35 connector. Currently, vehicles form a queue extending from the Del Mar Boulevard/east frontage road signal into the IH-35 northbound mainlanes. While this queue occurs only a short time, it is highly undesirable.

#### **Alternative No. 2C:**

Figure 20 illustrated a variation of the previously discussed design alternative (2B). This alternative has both the southbound and northbound connector ramps elevated.

#### **Summary**

The design alternatives in this category provide methods to reduce the vehicular demands at the IH-35/Del Mar Boulevard interchange. These alternatives may be implemented in conjunction with any operational/capacity improvement alternatives and provide a more permanent solution to the existing and future congestion and mobility problems at the interchange.

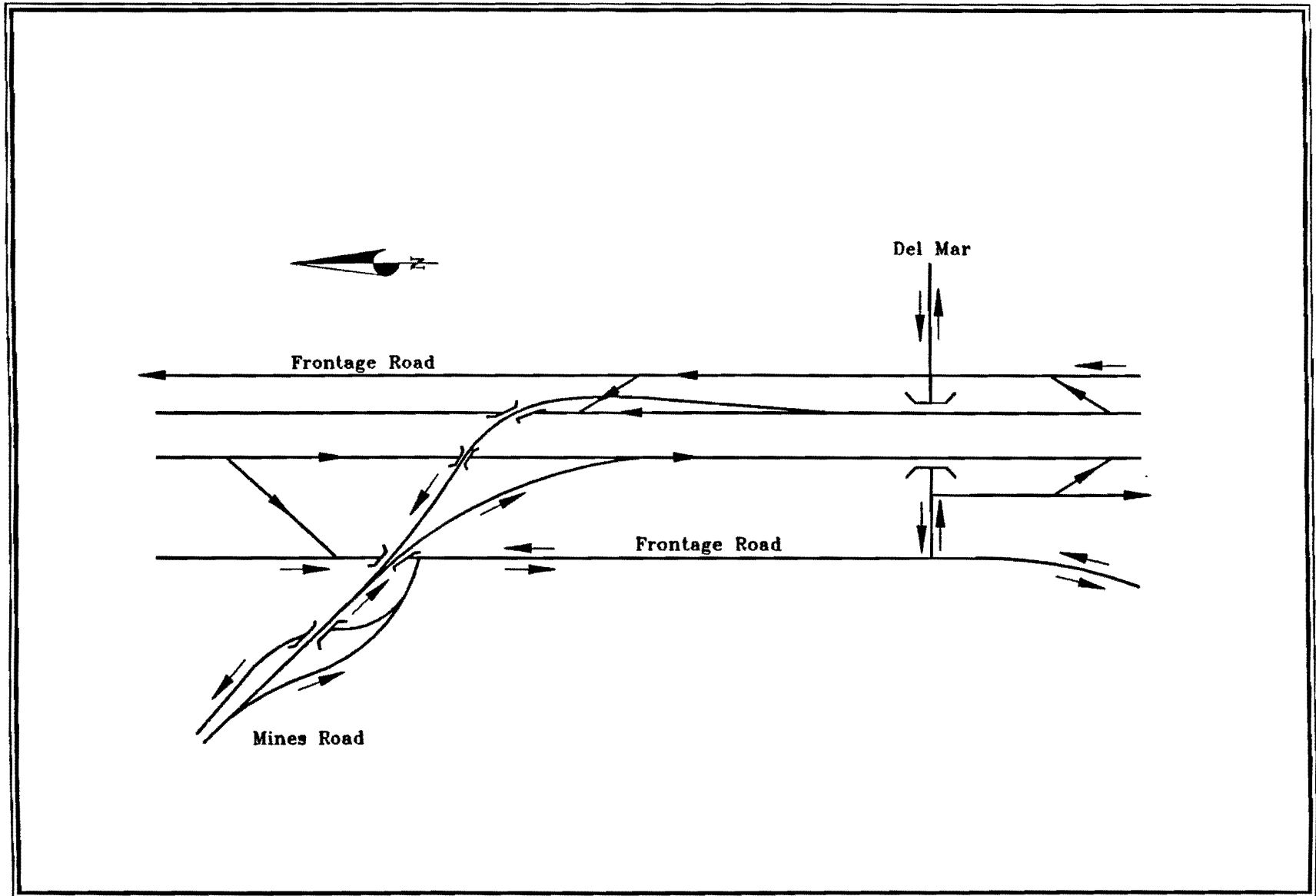


Figure 20. Alternative 2C Combined with Alternative 1C

Alternatives Nos. 2A and 2B could be implemented as staged construction providing facilities as funding permits. These alternatives (2A and 2B) would serve as compliments and provide a logical extension of Alternatives 1B and 1C. Estimated costs for Alternatives 2A, 2B, and 2C are as follows:

- Alternative 2A: \$0.5 million
- Alternative 2B: \$5.2 million
- Alternative 2C: \$9.5 million

### **Providing An Alternative Route**

Providing an alternative east-west facility could eliminate traffic volumes at the Del Mar Boulevard interchange and promote the desired one-way frontage road system. Extending Shilo Road westward to FM 1472 would serve well for a number of reasons:

- Access to proposed eastern loop.
- Produce desirable interchange spacing between FM 1472 and FM 3464.
- Provide U-turning abilities and promote one-way frontage system.

The proposed extension of Shilo Road is illustrated in Figure 21. Shilo Road would be constructed as a four-lane facility and serve as a collector within the city street system. Two loop ramps would provide access to the IH-35 frontage roads. U-turning traffic could use these ramps and the overhead structure.

The extension of Shilo Road and construction of the overpass and ramps is estimated to cost approximately \$10 million. A list of the estimated costs are as follows:

- Overhead Structure: \$7 million
- Connector Ramps: \$0.8 million
- Shilo Road Extension: \$2.2 million

While this interchange may be considered a viable alternative, it is beyond the scope of this project to evaluate the full extent of benefits of the interchange's construction. Therefore, the benefit/cost analysis will not be considered in this alternative.



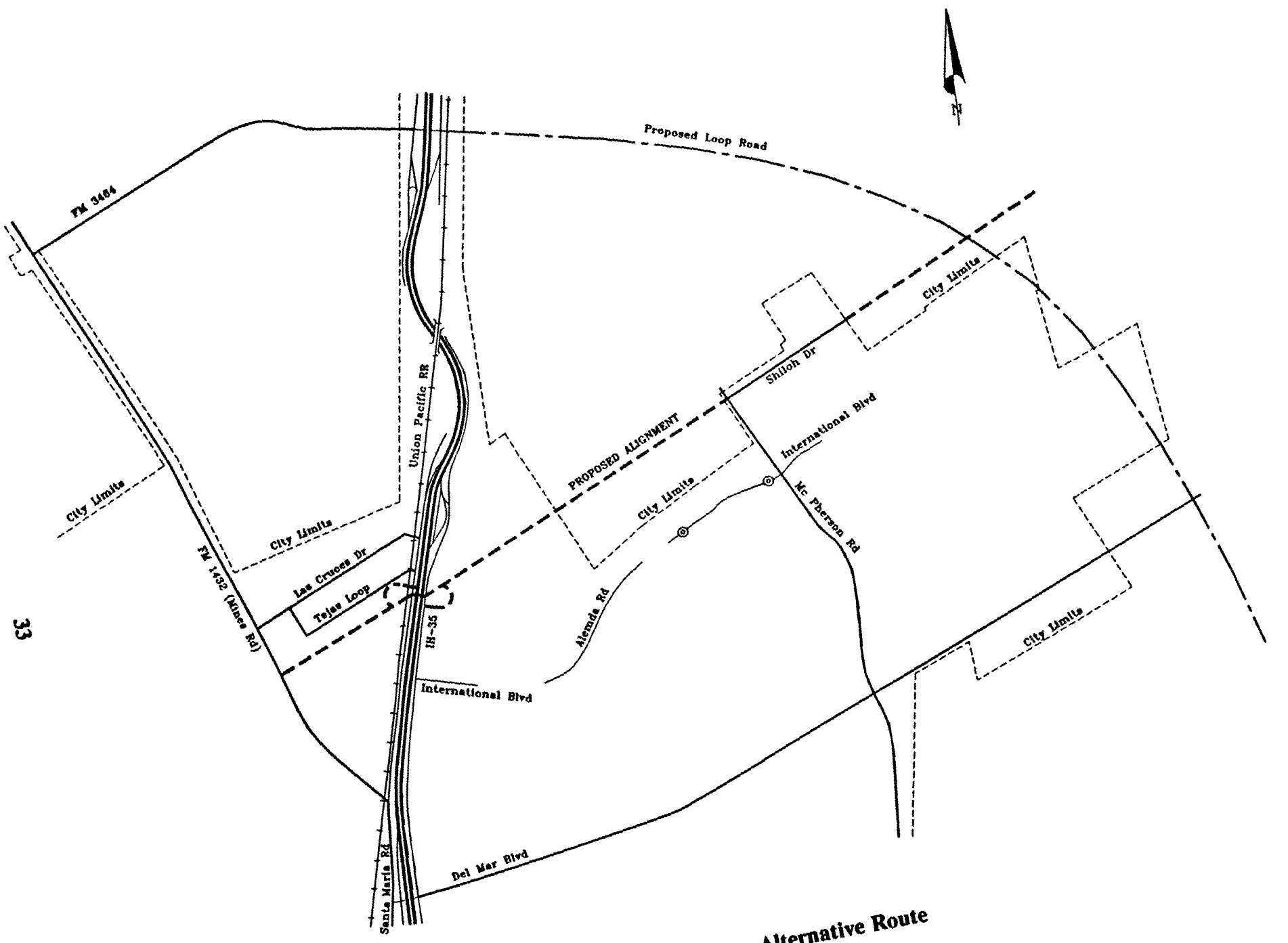


Figure 21. Shilo Interchange - Alternative Route



## **BENEFIT/COST ANALYSIS**

---

Alternatives were analyzed and evaluated on the basis of delay and benefit/cost. This section discusses the benefit/cost analysis. The supporting documentation for this analysis is contained in Appendix B.

### **Assumptions**

Several assumptions were made for the benefit/cost analysis. These assumptions are based on previous research and collected data. Assumptions include:

- Discount Rates -- 4 and 10 percent,
- Cost of Time -- \$9.76 per person hour,
- Occupancy Rate -- 1.25 persons per vehicle,
- Percent Trucks -- 25 percent,
- Number of Days per Year -- 250 days, and
- Delay only occurs during the peak-periods of operation.

### **Analysis**

The benefit/cost analysis is based on the ratio between the annual savings of person-hours in dollars and the cost of constructing the alternative. Table 4 illustrates both the benefit/cost ratio and the incremental benefit/cost ratio. Two discount rates were used in this analysis, 4 and 10 percent. TTI economists recommend a discount rate of 4 percent while the Federal Highway Administration uses a 10 percent discount rate.

The delay value used in the benefit/cost analysis for Alternative 1C includes the additional delay incurred by the east frontage traffic having to travel to FM 3464 in order to travel south on IH 35.

Alternative 1B has the best benefit/cost value for both discount rates. Alternative 2A in combination with Alternative 1B has the second best benefit/cost ratio. The incremental

analysis reinforces the delay analysis by showing that Alternative 2A combined with 1B would be the best alternative for the money spent.

## **RECOMMENDATIONS**

---

On the basis of the delay and benefit/cost analyses, the construction of Alternative 2A in conjunction with Alternative 1B would be the best solution to the congestion problem at the IH-35/Del Mar Boulevard interchange. This combination of alternatives require:

- Optimumization of the signal timings.
- Capacity improvements along FM 1472, the west frontage road, and Del Mar Boulevard between IH-35 and Old Santa Maria Road.
- West frontage road operated as one-way facility.
- Construction of an at-grade connector ramp from FM 1472 to the southbound IH-35 mainlanes.

The construction of the Shilo interchange would provide an alternative route to Del Mar Boulevard, however, the overall impact of such a facility could not be determined within the scope of this study. The interchange would promote and extend the one-way frontage road system along IH-35 to FM 3464 (Alternative 1C). In addition, the extension of Shilo Road would provide a much needed east-west collector between Del Mar Boulevard and the proposed eastern loop.

**Table 4. Incremental Benefit/Costs Analysis**

Alternative	Benefits		Costs	B/C Ratio		Incremental Benefit		Incremental Costs	Incremental B/C Ratio	
	4%	10%		4%	10%	4%	10%		4%	10%
1A	3,487,482	1,910,586	2,700,800	1.29	0.71	----	----	----	----	----
1B	7,926,095	4,342,241	3,010,400	2.63	1.44	4,438,613	2,431,655	309,600	14.34	7.85
1C	(1,109,653)	(607,914)	3,608,200	-0.31	-0.17	----	----	----	----	----
2A W/ 1A	6,103,093	3,343,525	3,210,400	1.90	1.04	(1,823,002)	(998,716)	200,000	----	----
2A W/ 1B	8,401,660	4,602,775	3,520,000	2.39	1.31	475,565	260,534	509,600	0.93	0.51
2A W/ 1C	(3,011,916)	(1,650,051)	4,117,800	-0.73	-0.40	----	----	----	----	----
2B W/ 1A	7,926,095	4,342,241	7,890,600	1.00	0.55	(475,565)	(260,534)	4,370,600	----	----
2B W/ 1B	9,669,835	5,297,534	8,200,200	1.18	0.65	1,268,175	694,759	4,680,200	0.27	0.15
2B W/ 1C	(2,377,828)	(1,302,672)	8,798,000	-0.27	-0.15	----	----	----	----	----
2C W/ 1A	7,926,095	4,342,241	12,202,000	0.65	0.36	(475,565)	(260,534)	8,682,000	----	----
2C W/ 1B	9,432,052	5,167,266	12,511,600	0.75	0.41	1,030,392	564,491	8,991,600	0.11	0.06
2C W/ 1C	(2,774,133)	(1,519,784)	13,109,400	-0.21	-0.12	----	----	----	----	----

2



**Appendix A**  
**Axle Count Data**





TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 12/11/90

WEATHER: CLEAR

LOCATION:

WEST SIDE FRONTAGE RDS NORTH OF MILO RD

TUBE NUMBER: This is 1 of 2 TUBES

SITE NO:

DIRECTION OF FLOW: NORTHBOUND

DAY # 1

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	0		06:00-06:15	2		12:00-12:15	0		*18:00-18:15	0	
00:15-00:30	0		06:15-06:30	4		12:15-12:30	0		*18:15-18:30	0	
00:30-00:45	0		06:30-06:45	0		12:30-12:45	4		*18:30-18:45	0	
00:45-01:00	0	0	06:45-07:00	0	6	*12:45-13:00	2	6	*18:45-19:00	0	0
		( 0)			( 6)			( 52)			( 70)
01:00-01:15	0		07:00-07:15	0		*13:00-13:15	2		*19:00-19:15	0	
01:15-01:30	0		07:15-07:30	0		*13:15-13:30	0		*19:15-19:30	0	
01:30-01:45	0		07:30-07:45	9		*13:30-13:45	0		*19:30-19:45	0	
01:45-02:00	0	0	07:45-08:00	2	11	*13:45-14:00	0	2	*19:45-20:00	5	5
		( 0)			( 17)			( 54)			( 75)
02:00-02:15	0		08:00-08:15	0		*14:00-14:15	0		*20:00-20:15	0	
02:15-02:30	0		08:15-08:30	4		*14:15-14:30	0		*20:15-20:30	0	
02:30-02:45	0		08:30-08:45	0		*14:30-14:45	0		*20:30-20:45	0	
02:45-03:00	0	0	08:45-09:00	9	13	*14:45-15:00	0	0	*20:45-21:00	0	0
		( 0)			( 30)			( 54)			( 75)
03:00-03:15	0		09:00-09:15	0		*15:00-15:15	4		*21:00-21:15	0	
03:15-03:30	0		09:15-09:30	0		*15:15-15:30	2		*21:15-21:30	0	
03:30-03:45	0		09:30-09:45	0		*15:30-15:45	2		*21:30-21:45	2	
03:45-04:00	0	0	09:45-10:00	2	2	*15:45-16:00	0	8	*21:45-22:00	0	2
		( 0)			( 32)			( 62)			( 77)
04:00-04:15	0		10:00-10:15	1		*16:00-16:15	0		*22:00-22:15	0	
04:15-04:30	0		10:15-10:30	0		*16:15-16:30	0		*22:15-22:30	2	
04:30-04:45	0		10:30-10:45	0		*16:30-16:45	2		*22:30-22:45	2	
04:45-05:00	0	0	10:45-11:00	0	1	*16:45-17:00	0	2	*22:45-23:00	0	4
		( 0)			( 33)			( 64)			( 81)
05:00-05:15	0		11:00-11:15	4		*17:00-17:15	0		*23:00-23:15	4	
05:15-05:30	0		11:15-11:30	0		*17:15-17:30	0		*23:15-23:30	0	
05:30-05:45	0		11:30-11:45	4		*17:30-17:45	2		*23:30-23:45	0	
05:45-06:00	0	0	11:45-12:00	5	13	*17:45-18:00	4	6	*23:45-24:00	0	4
		( 0)			( 46)			( 70)			( 85)

AM PEAK HIGHEST HOUR VOLUME: 15  
AM PEAK HOUR STARTING TIME: 07:30

PM PEAK HIGHEST HOUR VOLUME: 8  
PM PEAK HOUR STARTING TIME: 12:15

DAILY TOTAL: 85

DAILY PEAK HOUR START TIME: 07:30

DAILY PEAK VOLUME: 15

( ) -- INDICATES CUMULATIVE HOURLY TOTAL

\* -- INDICATES THE START DAY

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 12/11/90

SITE NO:

WEATHER: CLEAR

DIRECTION OF FLOW: NORTHBOUND

LOCATION: WEST SIDE FRONTAGE RDS NORTH OF MILO RD

DAY # 2

TUBE NUMBER: This is 1 of 2 TUBES

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	0		06:00-06:15	0		12:00-12:15	0		18:00-18:15	0	
00:15-00:30	0		06:15-06:30	0		12:15-12:30	0		18:15-18:30	0	
00:30-00:45	0		06:30-06:45	0		12:30-12:45	0		18:30-18:45	0	
00:45-01:00	0	0	06:45-07:00	0	0	12:45-13:00	0	0	18:45-19:00	0	0
		( 0)			( 0)			( 0)			( 5)
01:00-01:15	0		07:00-07:15	0		13:00-13:15	1		19:00-19:15	0	
01:15-01:30	0		07:15-07:30	0		13:15-13:30	2		19:15-19:30	0	
01:30-01:45	0		07:30-07:45	0		13:30-13:45	2		19:30-19:45	0	
01:45-02:00	0	0	07:45-08:00	0	0	13:45-14:00	0	5	19:45-20:00	0	0
		( 0)			( 0)			( 5)			( 5)
02:00-02:15	0		08:00-08:15	0		14:00-14:15	0		20:00-20:15	0	
02:15-02:30	0		08:15-08:30	0		14:15-14:30	0		20:15-20:30	0	
02:30-02:45	0		08:30-08:45	0		14:30-14:45	0		20:30-20:45	0	
02:45-03:00	0	0	08:45-09:00	0	0	14:45-15:00	0	0	20:45-21:00	0	0
		( 0)			( 0)			( 5)			( 5)
03:00-03:15	0		09:00-09:15	0		15:00-15:15	0		21:00-21:15	0	
03:15-03:30	0		09:15-09:30	0		15:15-15:30	0		21:15-21:30	0	
03:30-03:45	0		09:30-09:45	0		15:30-15:45	0		21:30-21:45	0	
03:45-04:00	0	0	09:45-10:00	0	0	15:45-16:00	0	0	21:45-22:00	0	0
		( 0)			( 0)			( 5)			( 5)
04:00-04:15	0		10:00-10:15	0		16:00-16:15	0		22:00-22:15	0	
04:15-04:30	0		10:15-10:30	0		16:15-16:30	0		22:15-22:30	0	
04:30-04:45	0		10:30-10:45	0		16:30-16:45	0		22:30-22:45	0	
04:45-05:00	0	0	10:45-11:00	0	0	16:45-17:00	0	0	22:45-23:00	0	0
		( 0)			( 0)			( 5)			( 5)
05:00-05:15	0		11:00-11:15	0		17:00-17:15	0		23:00-23:15	0	
05:15-05:30	0		11:15-11:30	0		17:15-17:30	0		23:15-23:30	0	
05:30-05:45	0		11:30-11:45	0		17:30-17:45	0		23:30-23:45	0	
05:45-06:00	0	0	11:45-12:00	0	0	17:45-18:00	0	0	23:45-24:00	0	0
		( 0)			( 0)			( 5)			( 5)

AM PEAK HIGHEST HOUR VOLUME: 0  
 AM PEAK HOUR STARTING TIME:

PM PEAK HIGHEST HOUR VOLUME: 5  
 PM PEAK HOUR STARTING TIME: 12:45

DAILY TOTAL: 5

DAILY PEAK HOUR START TIME: 12:45

DAILY PEAK VOLUME: 5

( ) -- INDICATES CUMULATIVE HOURLY TOTAL

\* -- INDICATES THE START DAY

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 12/11/90

SITE NO:

WEATHER: CLEAR

DIRECTION OF FLOW: SOUTHBOUND

LOCATION: WEST SIDE FRONTAGE RDS NORTH OF MILO RD

DAY # 1

TUBE NUMBER: This is 2 of 2 TUBES

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	0		06:00-06:15	0		12:00-12:15	0		*18:00-18:15	0	
00:15-00:30	0		06:15-06:30	4		12:15-12:30	0		*18:15-18:30	0	
00:30-00:45	0		06:30-06:45	0		12:30-12:45	0		*18:30-18:45	2	
00:45-01:00	0	( 0 )	06:45-07:00	0	( 4 )	*12:45-13:00	0	( 41 )	*18:45-19:00	0	( 94 )
01:00-01:15	0		07:00-07:15	0		*13:00-13:15	2		*19:00-19:15	0	
01:15-01:30	0		07:15-07:30	0		*13:15-13:30	2		*19:15-19:30	0	
01:30-01:45	0		07:30-07:45	3		*13:30-13:45	0		*19:30-19:45	0	
01:45-02:00	0	( 0 )	07:45-08:00	0	( 7 )	*13:45-14:00	0	( 45 )	*19:45-20:00	4	( 98 )
02:00-02:15	0		08:00-08:15	6		*14:00-14:15	0		*20:00-20:15	0	
02:15-02:30	0		08:15-08:30	4		*14:15-14:30	2		*20:15-20:30	0	
02:30-02:45	0		08:30-08:45	0		*14:30-14:45	0		*20:30-20:45	2	
02:45-03:00	0	( 0 )	08:45-09:00	5	( 15 )	*14:45-15:00	6	( 53 )	*20:45-21:00	0	( 100 )
03:00-03:15	0		09:00-09:15	0		*15:00-15:15	0		*21:00-21:15	0	
03:15-03:30	0		09:15-09:30	0		*15:15-15:30	0		*21:15-21:30	0	
03:30-03:45	0		09:30-09:45	0		*15:30-15:45	4		*21:30-21:45	0	
03:45-04:00	0	( 0 )	09:45-10:00	0	( 22 )	*15:45-16:00	7	( 64 )	*21:45-22:00	0	( 100 )
04:00-04:15	0		10:00-10:15	3		*16:00-16:15	5		*22:00-22:15	0	
04:15-04:30	0		10:15-10:30	0		*16:15-16:30	0		*22:15-22:30	0	
04:30-04:45	0		10:30-10:45	0		*16:30-16:45	15		*22:30-22:45	0	
04:45-05:00	0	( 0 )	10:45-11:00	0	( 25 )	*16:45-17:00	2	( 86 )	*22:45-23:00	0	( 100 )
05:00-05:15	0		11:00-11:15	0		*17:00-17:15	0		*23:00-23:15	8	
05:15-05:30	0		11:15-11:30	2		*17:15-17:30	0		*23:15-23:30	0	
05:30-05:45	0		11:30-11:45	4		*17:30-17:45	0		*23:30-23:45	0	
05:45-06:00	0	( 0 )	11:45-12:00	10	( 16 )	*17:45-18:00	6	( 92 )	*23:45-24:00	0	( 108 )

AM PEAK HIGHEST HOUR VOLUME: 16  
AM PEAK HOUR STARTING TIME: 11:00

PM PEAK HIGHEST HOUR VOLUME: 27  
PM PEAK HOUR STARTING TIME: 15:45

DAILY TOTAL: 108

DAILY PEAK HOUR START TIME: 15:45

DAILY PEAK VOLUME: 27

( ) -- INDICATES CUMULATIVE HOURLY TOTAL

\* -- INDICATES THE START DAY

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 12/11/90

SITE NO:

WEATHER: CLEAR

DIRECTION OF FLOW: SOUTHBOUND

LOCATION: WEST SIDE FRONTAGE RDS NORTH OF MILO RD

DAY # 2

TUBE NUMBER: This is 2 of 2 TUBES

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	0		06:00-06:15	0		12:00-12:15	0		18:00-18:15	0	
00:15-00:30	0		06:15-06:30	0		12:15-12:30	0		18:15-18:30	0	
00:30-00:45	0		06:30-06:45	0		12:30-12:45	0		18:30-18:45	0	
00:45-01:00	0	0 ( 0)	06:45-07:00	0	0 ( 0)	12:45-13:00	5	5 ( 5)	18:45-19:00	0	0 ( 9)
01:00-01:15	0		07:00-07:15	0		13:00-13:15	3		19:00-19:15	0	
01:15-01:30	0		07:15-07:30	0		13:15-13:30	0		19:15-19:30	0	
01:30-01:45	0		07:30-07:45	0		13:30-13:45	0		19:30-19:45	0	
01:45-02:00	0	0 ( 0)	07:45-08:00	0	0 ( 0)	13:45-14:00	1	4 ( 9)	19:45-20:00	0	0 ( 9)
02:00-02:15	0		08:00-08:15	0		14:00-14:15	0		20:00-20:15	0	
02:15-02:30	0		08:15-08:30	0		14:15-14:30	0		20:15-20:30	0	
02:30-02:45	0		08:30-08:45	0		14:30-14:45	0		20:30-20:45	0	
02:45-03:00	0	0 ( 0)	08:45-09:00	0	0 ( 0)	14:45-15:00	0	0 ( 9)	20:45-21:00	0	0 ( 9)
03:00-03:15	0		09:00-09:15	0		15:00-15:15	0		21:00-21:15	0	
03:15-03:30	0		09:15-09:30	0		15:15-15:30	0		21:15-21:30	0	
03:30-03:45	0		09:30-09:45	0		15:30-15:45	0		21:30-21:45	0	
03:45-04:00	0	0 ( 0)	09:45-10:00	0	0 ( 0)	15:45-16:00	0	0 ( 9)	21:45-22:00	0	0 ( 9)
04:00-04:15	0		10:00-10:15	0		16:00-16:15	0		22:00-22:15	0	
04:15-04:30	0		10:15-10:30	0		16:15-16:30	0		22:15-22:30	0	
04:30-04:45	0		10:30-10:45	0		16:30-16:45	0		22:30-22:45	0	
04:45-05:00	0	0 ( 0)	10:45-11:00	0	0 ( 0)	16:45-17:00	0	0 ( 9)	22:45-23:00	0	0 ( 9)
05:00-05:15	0		11:00-11:15	0		17:00-17:15	0		23:00-23:15	0	
05:15-05:30	0		11:15-11:30	0		17:15-17:30	0		23:15-23:30	0	
05:30-05:45	0		11:30-11:45	0		17:30-17:45	0		23:30-23:45	0	
05:45-06:00	0	0 ( 0)	11:45-12:00	0	0 ( 0)	17:45-18:00	0	0 ( 9)	23:45-24:00	0	0 ( 9)

AM PEAK HIGHEST HOUR VOLUME: 0

PM PEAK HIGHEST HOUR VOLUME: 8

AM PEAK HOUR STARTING TIME:

PM PEAK HOUR STARTING TIME: 12:15

DAILY TOTAL: 9

DAILY PEAK HOUR START TIME: 12:15

DAILY PEAK VOLUME: 8

( ) -- INDICATES CUMULATIVE HOURLY TOTAL

\* -- INDICATES THE START DAY

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 12/11/90

WEATHER: CLEAR

LOCATION:

TUBE NUMBER: This is 1 of 2 TUBES

SITE NO:

DIRECTION OF FLOW: EASTBOUND

MILO ROAD WEST OF IH 35 DAY # 1

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	11		06:00-06:15	15		12:00-12:15	137		*18:00-18:15	70	
00:15-00:30	0		06:15-06:30	6		12:15-12:30	68		*18:15-18:30	36	
00:30-00:45	0		06:30-06:45	72		*12:30-12:45	47		*18:30-18:45	34	
00:45-01:00	5	16	06:45-07:00	24	117	*12:45-13:00	40	292	*18:45-19:00	54	194
		( 16)			( 194)			(1505)			(3003)
01:00-01:15	6		07:00-07:15	32		*13:00-13:15	86		*19:00-19:15	21	
01:15-01:30	5		07:15-07:30	15		*13:15-13:30	67		*19:15-19:30	14	
01:30-01:45	5		07:30-07:45	52		*13:30-13:45	77		*19:30-19:45	43	
01:45-02:00	0	16	07:45-08:00	49	148	*13:45-14:00	20	250	*19:45-20:00	19	97
		( 32)			( 342)			(1755)			(3100)
02:00-02:15	0		08:00-08:15	36		*14:00-14:15	36		*20:00-20:15	14	
02:15-02:30	0		08:15-08:30	35		*14:15-14:30	63		*20:15-20:30	19	
02:30-02:45	0		08:30-08:45	41		*14:30-14:45	37		*20:30-20:45	41	
02:45-03:00	5	5	08:45-09:00	29	141	*14:45-15:00	38	174	*20:45-21:00	26	100
		( 37)			( 483)			(1929)			(3200)
03:00-03:15	0		09:00-09:15	35		*15:00-15:15	56		*21:00-21:15	11	
03:15-03:30	8		09:15-09:30	49		*15:15-15:30	63		*21:15-21:30	9	
03:30-03:45	21		09:30-09:45	45		*15:30-15:45	84		*21:30-21:45	8	
03:45-04:00	3	32	09:45-10:00	104	233	*15:45-16:00	92	295	*21:45-22:00	16	44
		( 69)			( 716)			(2224)			(3244)
04:00-04:15	-2		10:00-10:15	46		*16:00-16:15	49		*22:00-22:15	10	
04:15-04:30	-2		10:15-10:30	69		*16:15-16:30	56		*22:15-22:30	2	
04:30-04:45	0		10:30-10:45	82		*16:30-16:45	92		*22:30-22:45	27	
04:45-05:00	2	-2	10:45-11:00	46	243	*16:45-17:00	52	249	*22:45-23:00	36	75
		( 67)			( 959)			(2473)			(3319)
05:00-05:15	0		11:00-11:15	57		*17:00-17:15	84		*23:00-23:15	16	
05:15-05:30	9		11:15-11:30	49		*17:15-17:30	56		*23:15-23:30	4	
05:30-05:45	0		11:30-11:45	66		*17:30-17:45	127		*23:30-23:45	2	
05:45-06:00	1	10	11:45-12:00	82	254	*17:45-18:00	69	336	*23:45-24:00	6	28
		( 77)			(1213)			(2809)			(3347)

AM PEAK HIGHEST HOUR VOLUME: 301  
AM PEAK HOUR STARTING TIME: 09:45

PM PEAK HIGHEST HOUR VOLUME: 336  
PM PEAK HOUR STARTING TIME: 17:00

DAILY TOTAL: 3347

DAILY PEAK HOUR START TIME: 17:00

DAILY PEAK VOLUME: 336

( ) -- INDICATES CUMULATIVE HOURLY TOTAL

\* -- INDICATES THE START DAY

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 12/11/90

SITE NO:

WEATHER: CLEAR

DIRECTION OF FLOW: EASTBOUND

LOCATION:

MILO ROAD WEST OF IH 35

DAY # 2

TUBE NUMBER: This is 1 of 2 TUBES

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	0		06:00-06:15	0		12:00-12:15	0		18:00-18:15	0	
00:15-00:30	0		06:15-06:30	0		12:15-12:30	0		18:15-18:30	0	
00:30-00:45	0		06:30-06:45	0		12:30-12:45	48		18:30-18:45	0	
00:45-01:00	0	0	06:45-07:00	0	0	12:45-13:00	67	115	18:45-19:00	0	0
		( 0 )			( 0 )			( 115 )			( 318 )
01:00-01:15	0		07:00-07:15	0		13:00-13:15	70		19:00-19:15	0	
01:15-01:30	0		07:15-07:30	0		13:15-13:30	54		19:15-19:30	0	
01:30-01:45	0		07:30-07:45	0		13:30-13:45	89		19:30-19:45	0	
01:45-02:00	0	0	07:45-08:00	0	0	13:45-14:00	-10	203	19:45-20:00	0	0
		( 0 )			( 0 )			( 318 )			( 318 )
02:00-02:15	0		08:00-08:15	0		14:00-14:15	0		20:00-20:15	0	
02:15-02:30	0		08:15-08:30	0		14:15-14:30	0		20:15-20:30	0	
02:30-02:45	0		08:30-08:45	0		14:30-14:45	0		20:30-20:45	0	
02:45-03:00	0	0	08:45-09:00	0	0	14:45-15:00	0	0	20:45-21:00	0	0
		( 0 )			( 0 )			( 318 )			( 318 )
03:00-03:15	0		09:00-09:15	0		15:00-15:15	0		21:00-21:15	0	
03:15-03:30	0		09:15-09:30	0		15:15-15:30	0		21:15-21:30	0	
03:30-03:45	0		09:30-09:45	0		15:30-15:45	0		21:30-21:45	0	
03:45-04:00	0	0	09:45-10:00	0	0	15:45-16:00	0	0	21:45-22:00	0	0
		( 0 )			( 0 )			( 318 )			( 318 )
04:00-04:15	0		10:00-10:15	0		16:00-16:15	0		22:00-22:15	0	
04:15-04:30	0		10:15-10:30	0		16:15-16:30	0		22:15-22:30	0	
04:30-04:45	0		10:30-10:45	0		16:30-16:45	0		22:30-22:45	0	
04:45-05:00	0	0	10:45-11:00	0	0	16:45-17:00	0	0	22:45-23:00	0	0
		( 0 )			( 0 )			( 318 )			( 318 )
05:00-05:15	0		11:00-11:15	0		17:00-17:15	0		23:00-23:15	0	
05:15-05:30	0		11:15-11:30	0		17:15-17:30	0		23:15-23:30	0	
05:30-05:45	0		11:30-11:45	0		17:30-17:45	0		23:30-23:45	0	
05:45-06:00	0	0	11:45-12:00	0	0	17:45-18:00	0	0	23:45-24:00	0	0
		( 0 )			( 0 )			( 318 )			( 318 )

AM PEAK HIGHEST HOUR VOLUME: 0  
 AM PEAK HOUR STARTING TIME:

PM PEAK HIGHEST HOUR VOLUME: 280  
 PM PEAK HOUR STARTING TIME: 12:45

DAILY TOTAL: 318

DAILY PEAK HOUR START TIME: 12:45

DAILY PEAK VOLUME: 280

( ) -- INDICATES CUMULATIVE HOURLY TOTAL

\* -- INDICATES THE START DAY

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 12/11/90

SITE NO:

WEATHER: CLEAR

DIRECTION OF FLOW: WESTBOUND

LOCATION:

MILO ROAD WEST OF IH 35

DAY # 1

TUBE NUMBER: This is 2 of 2 TUBES

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	2		06:00-06:15	18		12:00-12:15	49		*18:00-18:15	57	
00:15-00:30	2		06:15-06:30	21		12:15-12:30	78		*18:15-18:30	35	
00:30-00:45	4		06:30-06:45	8		*12:30-12:45	60		*18:30-18:45	25	
00:45-01:00	0	8	06:45-07:00	39	86	*12:45-13:00	55	242	*18:45-19:00	13	130
		( 8)			( 181)			(1794)			(3144)
01:00-01:15	4		07:00-07:15	40		*13:00-13:15	66		*19:00-19:15	18	
01:15-01:30	7		07:15-07:30	71		*13:15-13:30	70		*19:15-19:30	20	
01:30-01:45	0		07:30-07:45	65		*13:30-13:45	58		*19:30-19:45	8	
01:45-02:00	0	11	07:45-08:00	103	279	*13:45-14:00	66	260	*19:45-20:00	41	87
		( 19)			( 460)			(2054)			(3231)
02:00-02:15	5		08:00-08:15	107		*14:00-14:15	89		*20:00-20:15	28	
02:15-02:30	0		08:15-08:30	78		*14:15-14:30	54		*20:15-20:30	4	
02:30-02:45	2		08:30-08:45	69		*14:30-14:45	40		*20:30-20:45	14	
02:45-03:00	0	7	08:45-09:00	106	360	*14:45-15:00	79	262	*20:45-21:00	13	59
		( 26)			( 820)			(2316)			(3290)
03:00-03:15	0		09:00-09:15	68		*15:00-15:15	56		*21:00-21:15	2	
03:15-03:30	0		09:15-09:30	77		*15:15-15:30	57		*21:15-21:30	7	
03:30-03:45	7		09:30-09:45	54		*15:30-15:45	82		*21:30-21:45	2	
03:45-04:00	0	7	09:45-10:00	47	246	*15:45-16:00	51	246	*21:45-22:00	0	11
		( 33)			(1066)			(2562)			(3301)
04:00-04:15	7		10:00-10:15	45		*16:00-16:15	50		*22:00-22:15	10	
04:15-04:30	16		10:15-10:30	76		*16:15-16:30	35		*22:15-22:30	3	
04:30-04:45	0		10:30-10:45	71		*16:30-16:45	88		*22:30-22:45	21	
04:45-05:00	10	33	10:45-11:00	66	258	*16:45-17:00	50	223	*22:45-23:00	2	36
		( 66)			(1324)			(2785)			(3337)
05:00-05:15	5		11:00-11:15	53		*17:00-17:15	39		*23:00-23:15	2	
05:15-05:30	2		11:15-11:30	52		*17:15-17:30	86		*23:15-23:30	15	
05:30-05:45	14		11:30-11:45	66		*17:30-17:45	68		*23:30-23:45	5	
05:45-06:00	8	29	11:45-12:00	57	228	*17:45-18:00	36	229	*23:45-24:00	4	26
		( 95)			(1552)			(3014)			(3363)

AM PEAK HIGHEST HOUR VOLUME: 360  
 AM PEAK HOUR STARTING TIME: 08:00

PM PEAK HIGHEST HOUR VOLUME: 283  
 PM PEAK HOUR STARTING TIME: 13:15

DAILY TOTAL: 3363

DAILY PEAK HOUR START TIME: 08:00

DAILY PEAK VOLUME: 360

( ) -- INDICATES CUMULATIVE HOURLY TOTAL

\* -- INDICATES THE START DAY

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 12/11/90

WEATHER: CLEAR

LOCATION:

TUBE NUMBER: This is 2 of 2 TUBES

SITE NO:

DIRECTION OF FLOW: WESTBOUND

MILO ROAD WEST OF IH 35

DAY # 2

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	0		06:00-06:15	0		12:00-12:15	0		18:00-18:15	0	
00:15-00:30	0		06:15-06:30	0		12:15-12:30	0		18:15-18:30	0	
00:30-00:45	0		06:30-06:45	0		12:30-12:45	42		18:30-18:45	0	
00:45-01:00	0	0 ( 0)	06:45-07:00	0	0 ( 0)	12:45-13:00	101	143 ( 143)	18:45-19:00	0	0 ( 347)
01:00-01:15	0		07:00-07:15	0		13:00-13:15	50		19:00-19:15	0	
01:15-01:30	0		07:15-07:30	0		13:15-13:30	73		19:15-19:30	0	
01:30-01:45	0		07:30-07:45	0		13:30-13:45	69		19:30-19:45	0	
01:45-02:00	0	0 ( 0)	07:45-08:00	0	0 ( 0)	13:45-14:00	12	204 ( 347)	19:45-20:00	0	0 ( 347)
02:00-02:15	0		08:00-08:15	0		14:00-14:15	0		20:00-20:15	0	
02:15-02:30	0		08:15-08:30	0		14:15-14:30	0		20:15-20:30	0	
02:30-02:45	0		08:30-08:45	0		14:30-14:45	0		20:30-20:45	0	
02:45-03:00	0	0 ( 0)	08:45-09:00	0	0 ( 0)	14:45-15:00	0	0 ( 347)	20:45-21:00	0	0 ( 347)
03:00-03:15	0		09:00-09:15	0		15:00-15:15	0		21:00-21:15	0	
03:15-03:30	0		09:15-09:30	0		15:15-15:30	0		21:15-21:30	0	
03:30-03:45	0		09:30-09:45	0		15:30-15:45	0		21:30-21:45	0	
03:45-04:00	0	0 ( 0)	09:45-10:00	0	0 ( 0)	15:45-16:00	0	0 ( 347)	21:45-22:00	0	0 ( 347)
04:00-04:15	0		10:00-10:15	0		16:00-16:15	0		22:00-22:15	0	
04:15-04:30	0		10:15-10:30	0		16:15-16:30	0		22:15-22:30	0	
04:30-04:45	0		10:30-10:45	0		16:30-16:45	0		22:30-22:45	0	
04:45-05:00	0	0 ( 0)	10:45-11:00	0	0 ( 0)	16:45-17:00	0	0 ( 347)	22:45-23:00	0	0 ( 347)
05:00-05:15	0		11:00-11:15	0		17:00-17:15	0		23:00-23:15	0	
05:15-05:30	0		11:15-11:30	0		17:15-17:30	0		23:15-23:30	0	
05:30-05:45	0		11:30-11:45	0		17:30-17:45	0		23:30-23:45	0	
05:45-06:00	0	0 ( 0)	11:45-12:00	0	0 ( 0)	17:45-18:00	0	0 ( 347)	23:45-24:00	0	0 ( 347)

AM PEAK HIGHEST HOUR VOLUME: 0  
AM PEAK HOUR STARTING TIME:

PM PEAK HIGHEST HOUR VOLUME: 293  
PM PEAK HOUR STARTING TIME: 12:45

DAILY TOTAL: 347

DAILY PEAK HOUR START TIME: 12:45

DAILY PEAK VOLUME: 293

( ) -- INDICATES CUMULATIVE HOURLY TOTAL

\* -- INDICATES THE START DAY



TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 12/11/90

SITE NO:

WEATHER: CLEAR

DIRECTION OF FLOW: NORTHBOUND

LOCATION:

WEST SIDE FR JUST SOUTH OF MILO RD

DAY # 1

TUBE NUMBER: This is 1 of 2 TUBES

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	0		06:00-06:15	0		12:00-12:15	19		*18:00-18:15	0	
00:15-00:30	0		06:15-06:30	5		12:15-12:30	5		*18:15-18:30	0	
00:30-00:45	5		06:30-06:45	0		12:30-12:45	14		*18:30-18:45	14	
00:45-01:00	2	7 ( 7)	06:45-07:00	0	5 ( 25)	12:45-13:00	9	47 ( 199)	*18:45-19:00	7	21 ( 370)
01:00-01:15	0		07:00-07:15	0		*13:00-13:15	5		*19:00-19:15	0	
01:15-01:30	0		07:15-07:30	1		*13:15-13:30	6		*19:15-19:30	0	
01:30-01:45	0		07:30-07:45	0		*13:30-13:45	12		*19:30-19:45	2	
01:45-02:00	3	3 ( 10)	07:45-08:00	4	5 ( 30)	*13:45-14:00	7	30 ( 229)	*19:45-20:00	0	2 ( 372)
02:00-02:15	0		08:00-08:15	0		*14:00-14:15	17		*20:00-20:15	5	
02:15-02:30	0		08:15-08:30	3		*14:15-14:30	5		*20:15-20:30	6	
02:30-02:45	0		08:30-08:45	3		*14:30-14:45	0		*20:30-20:45	6	
02:45-03:00	0	0 ( 10)	08:45-09:00	20	26 ( 56)	*14:45-15:00	7	29 ( 258)	*20:45-21:00	0	17 ( 389)
03:00-03:15	0		09:00-09:15	7		*15:00-15:15	5		*21:00-21:15	0	
03:15-03:30	0		09:15-09:30	2		*15:15-15:30	9		*21:15-21:30	5	
03:30-03:45	0		09:30-09:45	12		*15:30-15:45	7		*21:30-21:45	5	
03:45-04:00	0	0 ( 10)	09:45-10:00	3	24 ( 80)	*15:45-16:00	6	27 ( 285)	*21:45-22:00	0	10 ( 399)
04:00-04:15	5		10:00-10:15	4		*16:00-16:15	5		*22:00-22:15	0	
04:15-04:30	0		10:15-10:30	4		*16:15-16:30	5		*22:15-22:30	0	
04:30-04:45	0		10:30-10:45	15		*16:30-16:45	12		*22:30-22:45	0	
04:45-05:00	0	5 ( 15)	10:45-11:00	5	28 ( 108)	*16:45-17:00	20	42 ( 327)	*22:45-23:00	0	0 ( 399)
05:00-05:15	0		11:00-11:15	10		*17:00-17:15	8		*23:00-23:15	0	
05:15-05:30	5		11:15-11:30	0		*17:15-17:30	4		*23:15-23:30	0	
05:30-05:45	0		11:30-11:45	12		*17:30-17:45	10		*23:30-23:45	0	
05:45-06:00	0	5 ( 20)	11:45-12:00	22	44 ( 152)	*17:45-18:00	0	22 ( 349)	*23:45-24:00	0	0 ( 399)

AM PEAK HIGHEST HOUR VOLUME: 44  
AM PEAK HOUR STARTING TIME: 11:00

PM PEAK HIGHEST HOUR VOLUME: 47  
PM PEAK HOUR STARTING TIME: 12:00

DAILY TOTAL: 399

DAILY PEAK HOUR START TIME: 12:00

DAILY PEAK VOLUME: 47

( ) -- INDICATES CUMULATIVE HOURLY TOTAL

\* -- INDICATES THE START DAY

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 12/11/90

WEATHER: CLEAR

LOCATION:

WEST SIDE FR JUST SOUTH OF MILO RD

TUBE NUMBER: This is 1 of 2 TUBES

SITE NO:

DIRECTION OF FLOW: NORTHBOUND

DAY # 2

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	0		06:00-06:15	0		12:00-12:15	0		18:00-18:15	0	
00:15-00:30	0		06:15-06:30	0		12:15-12:30	0		18:15-18:30	0	
00:30-00:45	0		06:30-06:45	0		12:30-12:45	0		18:30-18:45	0	
00:45-01:00	0	0	06:45-07:00	0	0	12:45-13:00	0	0	18:45-19:00	0	0
		( 0)			( 0)			( 0)			( 30)
01:00-01:15	0		07:00-07:15	0		13:00-13:15	10		19:00-19:15	0	
01:15-01:30	0		07:15-07:30	0		13:15-13:30	8		19:15-19:30	0	
01:30-01:45	0		07:30-07:45	0		13:30-13:45	10		19:30-19:45	0	
01:45-02:00	0	0	07:45-08:00	0	0	13:45-14:00	2	30	19:45-20:00	0	0
		( 0)			( 0)			( 30)			( 30)
02:00-02:15	0		08:00-08:15	0		14:00-14:15	0		20:00-20:15	0	
02:15-02:30	0		08:15-08:30	0		14:15-14:30	0		20:15-20:30	0	
02:30-02:45	0		08:30-08:45	0		14:30-14:45	0		20:30-20:45	0	
02:45-03:00	0	0	08:45-09:00	0	0	14:45-15:00	0	0	20:45-21:00	0	0
		( 0)			( 0)			( 30)			( 30)
03:00-03:15	0		09:00-09:15	0		15:00-15:15	0		21:00-21:15	0	
03:15-03:30	0		09:15-09:30	0		15:15-15:30	0		21:15-21:30	0	
03:30-03:45	0		09:30-09:45	0		15:30-15:45	0		21:30-21:45	0	
03:45-04:00	0	0	09:45-10:00	0	0	15:45-16:00	0	0	21:45-22:00	0	0
		( 0)			( 0)			( 30)			( 30)
04:00-04:15	0		10:00-10:15	0		16:00-16:15	0		22:00-22:15	0	
04:15-04:30	0		10:15-10:30	0		16:15-16:30	0		22:15-22:30	0	
04:30-04:45	0		10:30-10:45	0		16:30-16:45	0		22:30-22:45	0	
04:45-05:00	0	0	10:45-11:00	0	0	16:45-17:00	0	0	22:45-23:00	0	0
		( 0)			( 0)			( 30)			( 30)
05:00-05:15	0		11:00-11:15	0		17:00-17:15	0		23:00-23:15	0	
05:15-05:30	0		11:15-11:30	0		17:15-17:30	0		23:15-23:30	0	
05:30-05:45	0		11:30-11:45	0		17:30-17:45	0		23:30-23:45	0	
05:45-06:00	0	0	11:45-12:00	0	0	17:45-18:00	0	0	23:45-24:00	0	0
		( 0)			( 0)			( 30)			( 30)

AM PEAK HIGHEST HOUR VOLUME: 0  
AM PEAK HOUR STARTING TIME:

PM PEAK HIGHEST HOUR VOLUME: 30  
PM PEAK HOUR STARTING TIME: 13:00

DAILY TOTAL: 30

DAILY PEAK HOUR START TIME: 13:00

DAILY PEAK VOLUME: 30

( ) -- INDICATES CUMULATIVE HOURLY TOTAL

\* -- INDICATES THE START DAY

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 12/11/90

SITE NO:

WEATHER: CLEAR

DIRECTION OF FLOW: SOUTHBOUND

LOCATION:

WEST SIDE FR JUST SOUTH OF MILO RD

DAY # 1

TUBE NUMBER: This is 2 of 2 TUBES

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	8		06:00-06:15	5		12:00-12:15	162		*18:00-18:15	93	
00:15-00:30	0		06:15-06:30	22		12:15-12:30	98		*18:15-18:30	61	
00:30-00:45	5		06:30-06:45	19		12:30-12:45	64		*18:30-18:45	41	
00:45-01:00	5	18 ( 18)	06:45-07:00	9	55 ( 155)	12:45-13:00	128	452 (2494)	*18:45-19:00	50	245 (4610)
01:00-01:15	7		07:00-07:15	33		*13:00-13:15	113		*19:00-19:15	13	
01:15-01:30	0		07:15-07:30	42		*13:15-13:30	119		*19:15-19:30	14	
01:30-01:45	5		07:30-07:45	64		*13:30-13:45	88		*19:30-19:45	23	
01:45-02:00	0	12 ( 30)	07:45-08:00	112	251 ( 406)	*13:45-14:00	60	380 (2874)	*19:45-20:00	21	71 (4681)
02:00-02:15	0		08:00-08:15	117		*14:00-14:15	78		*20:00-20:15	22	
02:15-02:30	10		08:15-08:30	101		*14:15-14:30	96		*20:15-20:30	15	
02:30-02:45	10		08:30-08:45	147		*14:30-14:45	78		*20:30-20:45	20	
02:45-03:00	7	27 ( 57)	08:45-09:00	151	516 ( 922)	*14:45-15:00	63	315 (3189)	*20:45-21:00	19	76 (4757)
03:00-03:15	0		09:00-09:15	85		*15:00-15:15	124		*21:00-21:15	11	
03:15-03:30	0		09:15-09:30	85		*15:15-15:30	89		*21:15-21:30	18	
03:30-03:45	15		09:30-09:45	109		*15:30-15:45	112		*21:30-21:45	4	
03:45-04:00	0	15 ( 72)	09:45-10:00	91	370 (1292)	*15:45-16:00	104	429 (3618)	*21:45-22:00	12	45 (4802)
04:00-04:15	0		10:00-10:15	96		*16:00-16:15	77		*22:00-22:15	11	
04:15-04:30	0		10:15-10:30	109		*16:15-16:30	69		*22:15-22:30	11	
04:30-04:45	5		10:30-10:45	106		*16:30-16:45	120		*22:30-22:45	5	
04:45-05:00	5	10 ( 82)	10:45-11:00	58	369 (1661)	*16:45-17:00	74	340 (3958)	*22:45-23:00	22	49 (4851)
05:00-05:15	0		11:00-11:15	70		*17:00-17:15	135		*23:00-23:15	4	
05:15-05:30	3		11:15-11:30	118		*17:15-17:30	72		*23:15-23:30	8	
05:30-05:45	5		11:30-11:45	89		*17:30-17:45	123		*23:30-23:45	2	
05:45-06:00	10	18 ( 100)	11:45-12:00	104	381 (2042)	*17:45-18:00	77	407 (4365)	*23:45-24:00	6	20 (4871)

AM PEAK HIGHEST HOUR VOLUME: 516  
AM PEAK HOUR STARTING TIME: 08:00

PM PEAK HIGHEST HOUR VOLUME: 452  
PM PEAK HOUR STARTING TIME: 12:00

DAILY TOTAL: 4871

DAILY PEAK HOUR START TIME: 08:00

DAILY PEAK VOLUME: 516

( ) -- INDICATES CUMULATIVE HOURLY TOTAL

\* -- INDICATES THE START DAY

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 12/11/90

WEATHER: CLEAR

LOCATION:

TUBE NUMBER: This is 2 of 2 TUBES

SITE NO:

DIRECTION OF FLOW: SOUTHBOUND

DAY # 2

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	0		06:00-06:15	0		12:00-12:15	0		18:00-18:15	0	
00:15-00:30	0		06:15-06:30	0		12:15-12:30	0		18:15-18:30	0	
00:30-00:45	0		06:30-06:45	0		12:30-12:45	0		18:30-18:45	0	
00:45-01:00	0	0	06:45-07:00	0	0	12:45-13:00	0	0	18:45-19:00	0	0
		( 0)			( 0)			( 0)			( 373)
01:00-01:15	0		07:00-07:15	0		13:00-13:15	102		19:00-19:15	0	
01:15-01:30	0		07:15-07:30	0		13:15-13:30	100		19:15-19:30	0	
01:30-01:45	0		07:30-07:45	0		13:30-13:45	137		19:30-19:45	0	
01:45-02:00	0	0	07:45-08:00	0	0	13:45-14:00	32	371	19:45-20:00	0	0
		( 0)			( 0)			( 371)			( 373)
02:00-02:15	0		08:00-08:15	0		14:00-14:15	2		20:00-20:15	0	
02:15-02:30	0		08:15-08:30	0		14:15-14:30	0		20:15-20:30	0	
02:30-02:45	0		08:30-08:45	0		14:30-14:45	0		20:30-20:45	0	
02:45-03:00	0	0	08:45-09:00	0	0	14:45-15:00	0	2	20:45-21:00	0	0
		( 0)			( 0)			( 373)			( 373)
03:00-03:15	0		09:00-09:15	0		15:00-15:15	0		21:00-21:15	0	
03:15-03:30	0		09:15-09:30	0		15:15-15:30	0		21:15-21:30	0	
03:30-03:45	0		09:30-09:45	0		15:30-15:45	0		21:30-21:45	0	
03:45-04:00	0	0	09:45-10:00	0	0	15:45-16:00	0	0	21:45-22:00	0	0
		( 0)			( 0)			( 373)			( 373)
04:00-04:15	0		10:00-10:15	0		16:00-16:15	0		22:00-22:15	0	
04:15-04:30	0		10:15-10:30	0		16:15-16:30	0		22:15-22:30	0	
04:30-04:45	0		10:30-10:45	0		16:30-16:45	0		22:30-22:45	0	
04:45-05:00	0	0	10:45-11:00	0	0	16:45-17:00	0	0	22:45-23:00	0	0
		( 0)			( 0)			( 373)			( 373)
05:00-05:15	0		11:00-11:15	0		17:00-17:15	0		23:00-23:15	0	
05:15-05:30	0		11:15-11:30	0		17:15-17:30	0		23:15-23:30	0	
05:30-05:45	0		11:30-11:45	0		17:30-17:45	0		23:30-23:45	0	
05:45-06:00	0	0	11:45-12:00	0	0	17:45-18:00	0	0	23:45-24:00	0	0
		( 0)			( 0)			( 373)			( 373)

AM PEAK HIGHEST HOUR VOLUME: 0  
 AM PEAK HOUR STARTING TIME:

PM PEAK HIGHEST HOUR VOLUME: 371  
 PM PEAK HOUR STARTING TIME: 13:00

DAILY TOTAL: 373

DAILY PEAK HOUR START TIME: 13:00

DAILY PEAK VOLUME: 371

( ) -- INDICATES CUMULATIVE HOURLY TOTAL

\* -- INDICATES THE START DAY

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 12/11/90

SITE NO:

WEATHER: CLEAR

DIRECTION OF FLOW: SOUTHBOUND

LOCATION: WESTSIDE FR SOUTH OF SB MILO ENTRANCE

DAY # 1

TUBE NUMBER: This is 1 of 2 TUBES

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	2		06:00-06:15	0		12:00-12:15	21		*18:00-18:15	7	
00:15-00:30	0		06:15-06:30	2		12:15-12:30	26		*18:15-18:30	13	
00:30-00:45	0		06:30-06:45	4		12:30-12:45	13		*18:30-18:45	2	
00:45-01:00	0	2 ( 2)	06:45-07:00	2	8 ( 14)	12:45-13:00	41	101 ( 723)	*18:45-19:00	6	28 (1012)
01:00-01:15	2		07:00-07:15	8		13:00-13:15	24		*19:00-19:15	2	
01:15-01:30	0		07:15-07:30	8		*13:15-13:30	18		*19:15-19:30	0	
01:30-01:45	1		07:30-07:45	25		*13:30-13:45	0		*19:30-19:45	2	
01:45-02:00	0	3 ( 5)	07:45-08:00	53	94 ( 108)	*13:45-14:00	15	57 ( 780)	*19:45-20:00	1	5 (1017)
02:00-02:15	0		08:00-08:15	60		*14:00-14:15	11		*20:00-20:15	1	
02:15-02:30	0		08:15-08:30	52		*14:15-14:30	12		*20:15-20:30	1	
02:30-02:45	0		08:30-08:45	64		*14:30-14:45	4		*20:30-20:45	0	
02:45-03:00	0	0 ( 5)	08:45-09:00	66	242 ( 350)	*14:45-15:00	6	33 ( 813)	*20:45-21:00	0	2 (1019)
03:00-03:15	0		09:00-09:15	33		*15:00-15:15	13		*21:00-21:15	2	
03:15-03:30	0		09:15-09:30	34		*15:15-15:30	26		*21:15-21:30	0	
03:30-03:45	0		09:30-09:45	38		*15:30-15:45	14		*21:30-21:45	2	
03:45-04:00	0	0 ( 5)	09:45-10:00	21	126 ( 476)	*15:45-16:00	16	69 ( 882)	*21:45-22:00	6	10 (1029)
04:00-04:15	0		10:00-10:15	24		*16:00-16:15	11		*22:00-22:15	0	
04:15-04:30	0		10:15-10:30	23		*16:15-16:30	15		*22:15-22:30	5	
04:30-04:45	0		10:30-10:45	24		*16:30-16:45	10		*22:30-22:45	0	
04:45-05:00	1	1 ( 6)	10:45-11:00	11	82 ( 558)	*16:45-17:00	8	44 ( 926)	*22:45-23:00	2	7 (1036)
05:00-05:15	0		11:00-11:15	16		*17:00-17:15	15		*23:00-23:15	0	
05:15-05:30	0		11:15-11:30	20		*17:15-17:30	8		*23:15-23:30	0	
05:30-05:45	0		11:30-11:45	15		*17:30-17:45	14		*23:30-23:45	0	
05:45-06:00	0	0 ( 6)	11:45-12:00	13	64 ( 622)	*17:45-18:00	21	58 ( 984)	*23:45-24:00	0	0 (1036)

AM PEAK HIGHEST HOUR VOLUME: 242  
AM PEAK HOUR STARTING TIME: 08:00

PM PEAK HIGHEST HOUR VOLUME: 104  
PM PEAK HOUR STARTING TIME: 12:15

DAILY TOTAL: 1036

DAILY PEAK HOUR START TIME: 08:00

DAILY PEAK VOLUME: 242

( ) -- INDICATES CUMULATIVE HOURLY TOTAL

\* -- INDICATES THE START DAY

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 12/11/90

SITE NO:

WEATHER: CLEAR

DIRECTION OF FLOW: SOUTHBOUND

LOCATION:

WESTSIDE FR SOUTH OF SB MILO ENTRANCE

DAY # 2

TUBE NUMBER: This is 1 of 2 TUBES

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	0		06:00-06:15	0		12:00-12:15	0		18:00-18:15	0	
00:15-00:30	0		06:15-06:30	0		12:15-12:30	0		18:15-18:30	0	
00:30-00:45	0		06:30-06:45	0		12:30-12:45	0		18:30-18:45	0	
00:45-01:00	0	0	06:45-07:00	0	0	12:45-13:00	0	0	18:45-19:00	0	0
		( 0)			( 0)			( 0)			( 56)
01:00-01:15	0		07:00-07:15	0		13:00-13:15	0		19:00-19:15	0	
01:15-01:30	0		07:15-07:30	0		13:15-13:30	26		19:15-19:30	0	
01:30-01:45	0		07:30-07:45	0		13:30-13:45	15		19:30-19:45	0	
01:45-02:00	0	0	07:45-08:00	0	0	13:45-14:00	16	57	19:45-20:00	0	0
		( 0)			( 0)			( 57)			( 56)
02:00-02:15	0		08:00-08:15	0		14:00-14:15	-1		20:00-20:15	0	
02:15-02:30	0		08:15-08:30	0		14:15-14:30	0		20:15-20:30	0	
02:30-02:45	0		08:30-08:45	0		14:30-14:45	0		20:30-20:45	0	
02:45-03:00	0	0	08:45-09:00	0	0	14:45-15:00	0	-1	20:45-21:00	0	0
		( 0)			( 0)			( 56)			( 56)
03:00-03:15	0		09:00-09:15	0		15:00-15:15	0		21:00-21:15	0	
03:15-03:30	0		09:15-09:30	0		15:15-15:30	0		21:15-21:30	0	
03:30-03:45	0		09:30-09:45	0		15:30-15:45	0		21:30-21:45	0	
03:45-04:00	0	0	09:45-10:00	0	0	15:45-16:00	0	0	21:45-22:00	0	0
		( 0)			( 0)			( 56)			( 56)
04:00-04:15	0		10:00-10:15	0		16:00-16:15	0		22:00-22:15	0	
04:15-04:30	0		10:15-10:30	0		16:15-16:30	0		22:15-22:30	0	
04:30-04:45	0		10:30-10:45	0		16:30-16:45	0		22:30-22:45	0	
04:45-05:00	0	0	10:45-11:00	0	0	16:45-17:00	0	0	22:45-23:00	0	0
		( 0)			( 0)			( 56)			( 56)
05:00-05:15	0		11:00-11:15	0		17:00-17:15	0		23:00-23:15	0	
05:15-05:30	0		11:15-11:30	0		17:15-17:30	0		23:15-23:30	0	
05:30-05:45	0		11:30-11:45	0		17:30-17:45	0		23:30-23:45	0	
05:45-06:00	0	0	11:45-12:00	0	0	17:45-18:00	0	0	23:45-24:00	0	0
		( 0)			( 0)			( 56)			( 56)

AM PEAK HIGHEST HOUR VOLUME: 0  
AM PEAK HOUR STARTING TIME:

PM PEAK HIGHEST HOUR VOLUME: 57  
PM PEAK HOUR STARTING TIME: 13:00

DAILY TOTAL: 56

DAILY PEAK HOUR START TIME: 13:00

DAILY PEAK VOLUME: 57

( ) -- INDICATES CUMULATIVE HOURLY TOTAL

\* -- INDICATES THE START DAY

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 12/11/90

SITE NO:

WEATHER: CLEAR

DIRECTION OF FLOW: NORTHBOUND

LOCATION:

WESTSIDE FR SOUTH OF SB MILO ENTRANCE

DAY # 1

TUBE NUMBER: This is 2 of 2 TUBES

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	0		06:00-06:15	0		12:00-12:15	113		*18:00-18:15	86	
00:15-00:30	0		06:15-06:30	18		12:15-12:30	56		*18:15-18:30	50	
00:30-00:45	5		06:30-06:45	8		12:30-12:45	71		*18:30-18:45	34	
00:45-01:00	0	5 ( 5)	06:45-07:00	4	30 ( 108)	12:45-13:00	87	327 (1494)	*18:45-19:00	24	194 (2992)
01:00-01:15	7		07:00-07:15	5		13:00-13:15	102		*19:00-19:15	8	
01:15-01:30	0		07:15-07:30	16		*13:15-13:30	58		*19:15-19:30	12	
01:30-01:45	9		07:30-07:45	4		*13:30-13:45	46		*19:30-19:45	9	
01:45-02:00	5	21 ( 26)	07:45-08:00	28	53 ( 161)	*13:45-14:00	47	253 (1747)	*19:45-20:00	30	59 (3051)
02:00-02:15	0		08:00-08:15	57		*14:00-14:15	72		*20:00-20:15	23	
02:15-02:30	12		08:15-08:30	28		*14:15-14:30	67		*20:15-20:30	20	
02:30-02:45	5		08:30-08:45	49		*14:30-14:45	73		*20:30-20:45	15	
02:45-03:00	5	22 ( 48)	08:45-09:00	97	231 ( 392)	*14:45-15:00	52	264 (2011)	*20:45-21:00	0	58 (3109)
03:00-03:15	0		09:00-09:15	59		*15:00-15:15	89		*21:00-21:15	15	
03:15-03:30	0		09:15-09:30	38		*15:15-15:30	75		*21:15-21:30	5	
03:30-03:45	0		09:30-09:45	55		*15:30-15:45	53		*21:30-21:45	11	
03:45-04:00	0	0 ( 48)	09:45-10:00	40	192 ( 584)	*15:45-16:00	65	282 (2293)	*21:45-22:00	4	35 (3144)
04:00-04:15	5		10:00-10:15	43		*16:00-16:15	37		*22:00-22:15	0	
04:15-04:30	0		10:15-10:30	64		*16:15-16:30	47		*22:15-22:30	4	
04:30-04:45	5		10:30-10:45	79		*16:30-16:45	84		*22:30-22:45	0	
04:45-05:00	4	14 ( 62)	10:45-11:00	56	242 ( 826)	*16:45-17:00	71	239 (2532)	*22:45-23:00	0	4 (3148)
05:00-05:15	0		11:00-11:15	41		*17:00-17:15	70		*23:00-23:15	2	
05:15-05:30	5		11:15-11:30	92		*17:15-17:30	36		*23:15-23:30	0	
05:30-05:45	5		11:30-11:45	98		*17:30-17:45	70		*23:30-23:45	0	
05:45-06:00	6	16 ( 78)	11:45-12:00	110	341 (1167)	*17:45-18:00	90	266 (2798)	*23:45-24:00	4	6 (3154)

AM PEAK HIGHEST HOUR VOLUME: 341  
AM PEAK HOUR STARTING TIME: 11:00

PM PEAK HIGHEST HOUR VOLUME: 327  
PM PEAK HOUR STARTING TIME: 12:00

DAILY TOTAL: 3154

DAILY PEAK HOUR START TIME: 11:00

DAILY PEAK VOLUME: 341

( ) -- INDICATES CUMULATIVE HOURLY TOTAL

\* -- INDICATES THE START DAY

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 12/11/90

SITE NO:

WEATHER: CLEAR

DIRECTION OF FLOW: NORTHBOUND

LOCATION: WESTSIDE FR SOUTH OF SB MILO ENTRANCE

DAY # 2

TUBE NUMBER: This is 2 of 2 TUBES

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	0		06:00-06:15	0		12:00-12:15	0		18:00-18:15	0	
00:15-00:30	0		06:15-06:30	0		12:15-12:30	0		18:15-18:30	0	
00:30-00:45	0		06:30-06:45	0		12:30-12:45	0		18:30-18:45	0	
00:45-01:00	0	( 0)	06:45-07:00	0	( 0)	12:45-13:00	0	( 0)	18:45-19:00	0	( 197)
01:00-01:15	0		07:00-07:15	0		13:00-13:15	0		19:00-19:15	0	
01:15-01:30	0		07:15-07:30	0		13:15-13:30	86		19:15-19:30	0	
01:30-01:45	0		07:30-07:45	0		13:30-13:45	88		19:30-19:45	0	
01:45-02:00	0	( 0)	07:45-08:00	0	( 0)	13:45-14:00	22	196	19:45-20:00	0	( 197)
								( 196)			
02:00-02:15	0		08:00-08:15	0		14:00-14:15	1		20:00-20:15	0	
02:15-02:30	0		08:15-08:30	0		14:15-14:30	0		20:15-20:30	0	
02:30-02:45	0		08:30-08:45	0		14:30-14:45	0		20:30-20:45	0	
02:45-03:00	0	( 0)	08:45-09:00	0	( 0)	14:45-15:00	0	1	20:45-21:00	0	( 197)
								( 197)			
03:00-03:15	0		09:00-09:15	0		15:00-15:15	0		21:00-21:15	0	
03:15-03:30	0		09:15-09:30	0		15:15-15:30	0		21:15-21:30	0	
03:30-03:45	0		09:30-09:45	0		15:30-15:45	0		21:30-21:45	0	
03:45-04:00	0	( 0)	09:45-10:00	0	( 0)	15:45-16:00	0	0	21:45-22:00	0	( 197)
								( 197)			
04:00-04:15	0		10:00-10:15	0		16:00-16:15	0		22:00-22:15	0	
04:15-04:30	0		10:15-10:30	0		16:15-16:30	0		22:15-22:30	0	
04:30-04:45	0		10:30-10:45	0		16:30-16:45	0		22:30-22:45	0	
04:45-05:00	0	( 0)	10:45-11:00	0	( 0)	16:45-17:00	0	0	22:45-23:00	0	( 197)
								( 197)			
05:00-05:15	0		11:00-11:15	0		17:00-17:15	0		23:00-23:15	0	
05:15-05:30	0		11:15-11:30	0		17:15-17:30	0		23:15-23:30	0	
05:30-05:45	0		11:30-11:45	0		17:30-17:45	0		23:30-23:45	0	
05:45-06:00	0	( 0)	11:45-12:00	0	( 0)	17:45-18:00	0	0	23:45-24:00	0	( 197)
								( 197)			

AM PEAK HIGHEST HOUR VOLUME: 0  
AM PEAK HOUR STARTING TIME:

PM PEAK HIGHEST HOUR VOLUME: 197  
PM PEAK HOUR STARTING TIME: 13:15

DAILY TOTAL: 197

DAILY PEAK HOUR START TIME: 13:15

DAILY PEAK VOLUME: 197

( ) -- INDICATES CUMULATIVE HOURLY TOTAL

\* -- INDICATES THE START DAY



TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 12/11/90

WEATHER: CLEAR

LOCATION: SOUTHBOUND IH 35 MAINLANES S OF SB MILO ENTRANCE

TUBE NUMBER: This is 1 of 1 TUBES

SITE NO:

DIRECTION OF FLOW: SOUTHBOUND

DAY # 1

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	56		06:00-06:15	25		12:00-12:15	348		*18:00-18:15	291	
00:15-00:30	69		06:15-06:30	81		12:15-12:30	244		*18:15-18:30	195	
00:30-00:45	56		06:30-06:45	91		12:30-12:45	249		*18:30-18:45	161	
00:45-01:00	51	232 ( 232)	06:45-07:00	121	318 (1342)	12:45-13:00	246	1087 (6660)	*18:45-19:00	191	838 (12104)
01:00-01:15	42		07:00-07:15	170		13:00-13:15	219		*19:00-19:15	107	
01:15-01:30	40		07:15-07:30	181		*13:15-13:30	214		*19:15-19:30	116	
01:30-01:45	40		07:30-07:45	180		*13:30-13:45	246		*19:30-19:45	103	
01:45-02:00	46	168 ( 400)	07:45-08:00	193	724 (2066)	*13:45-14:00	194	873 (7533)	*19:45-20:00	152	478 (12582)
02:00-02:15	44		08:00-08:15	195		*14:00-14:15	184		*20:00-20:15	119	
02:15-02:30	29		08:15-08:30	157		*14:15-14:30	231		*20:15-20:30	117	
02:30-02:45	44		08:30-08:45	231		*14:30-14:45	200		*20:30-20:45	92	
02:45-03:00	24	141 ( 541)	08:45-09:00	178	761 (2827)	*14:45-15:00	200	815 (8348)	*20:45-21:00	68	396 (12978)
03:00-03:15	8		09:00-09:15	182		*15:00-15:15	222		*21:00-21:15	125	
03:15-03:30	58		09:15-09:30	225		*15:15-15:30	194		*21:15-21:30	99	
03:30-03:45	55		09:30-09:45	236		*15:30-15:45	223		*21:30-21:45	83	
03:45-04:00	17	138 ( 679)	09:45-10:00	170	813 (3640)	*15:45-16:00	265	904 (9252)	*21:45-22:00	52	359 (13337)
04:00-04:15	24		10:00-10:15	221		*16:00-16:15	289		*22:00-22:15	74	
04:15-04:30	39		10:15-10:30	253		*16:15-16:30	202		*22:15-22:30	58	
04:30-04:45	29		10:30-10:45	236		*16:30-16:45	267		*22:30-22:45	63	
04:45-05:00	9	101 ( 780)	10:45-11:00	241	951 (4591)	*16:45-17:00	185	943 (10195)	*22:45-23:00	77	272 (13609)
05:00-05:15	45		11:00-11:15	263		*17:00-17:15	315		*23:00-23:15	60	
05:15-05:30	66		11:15-11:30	246		*17:15-17:30	204		*23:15-23:30	58	
05:30-05:45	43		11:30-11:45	214		*17:30-17:45	282		*23:30-23:45	38	
05:45-06:00	90	244 (1024)	11:45-12:00	259	982 (5573)	*17:45-18:00	270	1071 (11266)	*23:45-24:00	36	192 (13801)

AM PEAK HIGHEST HOUR VOLUME: 993  
AM PEAK HOUR STARTING TIME: 10:15

PM PEAK HIGHEST HOUR VOLUME: 1087  
PM PEAK HOUR STARTING TIME: 12:00

DAILY TOTAL: 13801

DAILY PEAK HOUR START TIME: 12:00

DAILY PEAK VOLUME: 1087

( ) -- INDICATES CUMULATIVE HOURLY TOTAL

\* -- INDICATES THE START DAY

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 12/11/90

SITE NO:

WEATHER: CLEAR

DIRECTION OF FLOW: SOUTHBOUND

LOCATION: SOUTHBOUND IH 35 MAINLANES S OF SB MILO ENTRANCE

DAY # 2

TUBE NUMBER: This is 1 of 1 TUBES

TIME	HOURLY VOLUME	HOURLY VOLUME	TIME	HOURLY VOLUME	HOURLY VOLUME	TIME	HOURLY VOLUME	HOURLY VOLUME	TIME	HOURLY VOLUME	HOURLY VOLUME
00:00-00:15	71		06:00-06:15	0		12:00-12:15	0		18:00-18:15	336	
00:15-00:30	71		06:15-06:30	0		12:15-12:30	0		18:15-18:30	222	
00:30-00:45	64		06:30-06:45	0		12:30-12:45	0		18:30-18:45	232	
00:45-01:00	70	276 ( 276)	06:45-07:00	0	0 ( 276)	12:45-13:00	0	0 ( 276)	18:45-19:00	175	965 (5704)
01:00-01:15	0		07:00-07:15	0		13:00-13:15	0		19:00-19:15	161	
01:15-01:30	0		07:15-07:30	0		13:15-13:30	214		19:15-19:30	162	
01:30-01:45	0		07:30-07:45	0		13:30-13:45	217		19:30-19:45	156	
01:45-02:00	0	0 ( 276)	07:45-08:00	0	0 ( 276)	13:45-14:00	198	629 ( 905)	19:45-20:00	170	649 (6353)
02:00-02:15	0		08:00-08:15	0		14:00-14:15	217		20:00-20:15	103	
02:15-02:30	0		08:15-08:30	0		14:15-14:30	166		20:15-20:30	139	
02:30-02:45	0		08:30-08:45	0		14:30-14:45	193		20:30-20:45	134	
02:45-03:00	0	0 ( 276)	08:45-09:00	0	0 ( 276)	14:45-15:00	223	799 (1704)	20:45-21:00	98	474 (6827)
03:00-03:15	0		09:00-09:15	0		15:00-15:15	224		21:00-21:15	73	
03:15-03:30	0		09:15-09:30	0		15:15-15:30	230		21:15-21:30	75	
03:30-03:45	0		09:30-09:45	0		15:30-15:45	237		21:30-21:45	93	
03:45-04:00	0	0 ( 276)	09:45-10:00	0	0 ( 276)	15:45-16:00	235	926 (2630)	21:45-22:00	101	342 (7169)
04:00-04:15	0		10:00-10:15	0		16:00-16:15	264		22:00-22:15	40	
04:15-04:30	0		10:15-10:30	0		16:15-16:30	267		22:15-22:30	44	
04:30-04:45	0		10:30-10:45	0		16:30-16:45	265		22:30-22:45	64	
04:45-05:00	0	0 ( 276)	10:45-11:00	0	0 ( 276)	16:45-17:00	280	1076 (3706)	22:45-23:00	63	211 (7380)
05:00-05:15	0		11:00-11:15	0		17:00-17:15	344		23:00-23:15	73	
05:15-05:30	0		11:15-11:30	0		17:15-17:30	222		23:15-23:30	52	
05:30-05:45	0		11:30-11:45	0		17:30-17:45	233		23:30-23:45	64	
05:45-06:00	0	0 ( 276)	11:45-12:00	0	0 ( 276)	17:45-18:00	234	1033 (4739)	23:45-24:00	23	212 (7592)

AM PEAK HIGHEST HOUR VOLUME: 276  
AM PEAK HOUR STARTING TIME: 00:00

PM PEAK HIGHEST HOUR VOLUME: 1156  
PM PEAK HOUR STARTING TIME: 16:15

DAILY TOTAL: 7592

DAILY PEAK HOUR START TIME: 16:15

DAILY PEAK VOLUME: 1156

( ) -- INDICATES CUMULATIVE HOURLY TOTAL

\* -- INDICATES THE START DAY

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 12/11/90

SITE NO:

WEATHER:

DIRECTION OF FLOW: NORTHBOUND

LOCATION: NORTHBOUND I35 MAINLANES BEFORE EXIT TO MILO RD

DAY # 1

TUBE NUMBER: This is 1 of 1 TUBES

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	26		06:00-06:15	42		12:00-12:15	238		*18:00-18:15	192	
00:15-00:30	28		06:15-06:30	116		12:15-12:30	240		*18:15-18:30	195	
00:30-00:45	40		06:30-06:45	98		12:30-12:45	222		*18:30-18:45	211	
00:45-01:00	35	129 ( 129)	06:45-07:00	113	369 (1105)	12:45-13:00	275	975 (6634)	*18:45-19:00	174	772 (12567)
01:00-01:15	28		07:00-07:15	128		13:00-13:15	239		*19:00-19:15	138	
01:15-01:30	13		07:15-07:30	185		13:15-13:30	285		*19:15-19:30	155	
01:30-01:45	24		07:30-07:45	163		*13:30-13:45	198		*19:30-19:45	114	
01:45-02:00	14	79 ( 208)	07:45-08:00	221	697 (1802)	*13:45-14:00	268	990 (7624)	*19:45-20:00	116	523 (13090)
02:00-02:15	16		08:00-08:15	263		*14:00-14:15	303		*20:00-20:15	122	
02:15-02:30	23		08:15-08:30	225		*14:15-14:30	247		*20:15-20:30	93	
02:30-02:45	37		08:30-08:45	287		*14:30-14:45	234		*20:30-20:45	89	
02:45-03:00	21	97 ( 305)	08:45-09:00	349	1124 (2926)	*14:45-15:00	346	1130 (8754)	*20:45-21:00	99	403 (13493)
03:00-03:15	23		09:00-09:15	216		*15:00-15:15	262		*21:00-21:15	60	
03:15-03:30	49		09:15-09:30	260		*15:15-15:30	292		*21:15-21:30	87	
03:30-03:45	50		09:30-09:45	235		*15:30-15:45	271		*21:30-21:45	94	
03:45-04:00	21	143 ( 448)	09:45-10:00	246	957 (3883)	*15:45-16:00	238	1063 (9817)	*21:45-22:00	81	322 (13815)
04:00-04:15	16		10:00-10:15	226		*16:00-16:15	224		*22:00-22:15	61	
04:15-04:30	20		10:15-10:30	219		*16:15-16:30	249		*22:15-22:30	87	
04:30-04:45	29		10:30-10:45	203		*16:30-16:45	251		*22:30-22:45	64	
04:45-05:00	23	88 ( 536)	10:45-11:00	192	840 (4723)	*16:45-17:00	218	942 (10759)	*22:45-23:00	38	250 (14065)
05:00-05:15	54		11:00-11:15	235		*17:00-17:15	275		*23:00-23:15	62	
05:15-05:30	42		11:15-11:30	251		*17:15-17:30	213		*23:15-23:30	47	
05:30-05:45	47		11:30-11:45	232		*17:30-17:45	291		*23:30-23:45	43	
05:45-06:00	57	200 ( 736)	11:45-12:00	218	936 (5659)	*17:45-18:00	257	1036 (11795)	*23:45-24:00	37	189 (14254)

AM PEAK HIGHEST HOUR VOLUME: 1124  
AM PEAK HOUR STARTING TIME: 08:00

PM PEAK HIGHEST HOUR VOLUME: 1171  
PM PEAK HOUR STARTING TIME: 14:45

DAILY TOTAL: 14254

DAILY PEAK HOUR START TIME: 14:45

DAILY PEAK VOLUME: 1171

( ) -- INDICATES CUMULATIVE HOURLY TOTAL

\* -- INDICATES THE START DAY

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 12/11/90

SITE NO:

WEATHER:

DIRECTION OF FLOW: NORTHBOUND

LOCATION: NORTHBOUND I35 MAINLANES BEFORE EXIT TO MILO RD

DAY # 2

TUBE NUMBER: This is 1 of 1 TUBES

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	59		06:00-06:15	67		12:00-12:15	197		18:00-18:15	188	
00:15-00:30	34		06:15-06:30	77		12:15-12:30	233		18:15-18:30	160	
00:30-00:45	26		06:30-06:45	144		12:30-12:45	195		18:30-18:45	156	
00:45-01:00	20	139 ( 139)	06:45-07:00	97	385 (1175)	12:45-13:00	218	843 (6478)	18:45-19:00	196	700 (12505)
01:00-01:15	46		07:00-07:15	163		13:00-13:15	250		19:00-19:15	136	
01:15-01:30	23		07:15-07:30	143		13:15-13:30	281		19:15-19:30	174	
01:30-01:45	36		07:30-07:45	181		13:30-13:45	309		19:30-19:45	198	
01:45-02:00	18	123 ( 262)	07:45-08:00	232	719 (1894)	13:45-14:00	223	1063 (7541)	19:45-20:00	140	648 (13153)
02:00-02:15	59		08:00-08:15	224		14:00-14:15	215		20:00-20:15	93	
02:15-02:30	25		08:15-08:30	267		14:15-14:30	289		20:15-20:30	100	
02:30-02:45	44		08:30-08:45	237		14:30-14:45	187		20:30-20:45	113	
02:45-03:00	13	141 ( 403)	08:45-09:00	296	1024 (2918)	14:45-15:00	272	963 (8504)	20:45-21:00	72	378 (13531)
03:00-03:15	18		09:00-09:15	253		15:00-15:15	285		21:00-21:15	104	
03:15-03:30	29		09:15-09:30	174		15:15-15:30	301		21:15-21:30	119	
03:30-03:45	40		09:30-09:45	258		15:30-15:45	264		21:30-21:45	107	
03:45-04:00	17	104 ( 507)	09:45-10:00	190	875 (3793)	15:45-16:00	276	1126 (9630)	21:45-22:00	53	383 (13914)
04:00-04:15	33		10:00-10:15	230		16:00-16:15	223		22:00-22:15	70	
04:15-04:30	18		10:15-10:30	219		16:15-16:30	325		22:15-22:30	33	
04:30-04:45	21		10:30-10:45	239		16:30-16:45	309		22:30-22:45	37	
04:45-05:00	46	118 ( 625)	10:45-11:00	184	872 (4665)	16:45-17:00	243	1100 (10730)	22:45-23:00	51	191 (14105)
05:00-05:15	43		11:00-11:15	226		17:00-17:15	250		23:00-23:15	70	
05:15-05:30	32		11:15-11:30	246		17:15-17:30	258		23:15-23:30	42	
05:30-05:45	53		11:30-11:45	213		17:30-17:45	324		23:30-23:45	36	
05:45-06:00	37	165 ( 790)	11:45-12:00	285	970 (5635)	17:45-18:00	243	1075 (11805)	23:45-24:00	43	191 (14296)

AM PEAK HIGHEST HOUR VOLUME: 1053  
AM PEAK HOUR STARTING TIME: 08:15

PM PEAK HIGHEST HOUR VOLUME: 1133  
PM PEAK HOUR STARTING TIME: 15:45

DAILY TOTAL: 14296

DAILY PEAK HOUR START TIME: 15:45

DAILY PEAK VOLUME: 1133

( ) -- INDICATES CUMULATIVE HOURLY TOTAL

\* -- INDICATES THE START DAY

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 12/11/90

SITE NO:

WEATHER:

DIRECTION OF FLOW: NORTHBOUND

LOCATION: NORTHBOUND 135 MAINLANES BEFORE EXIT TO MILO RD

DAY # 3

TUBE NUMBER: This is 1 of 1 TUBES

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	0		06:00-06:15	0		12:00-12:15	0		18:00-18:15	0	
00:15-00:30	0		06:15-06:30	0		12:15-12:30	0		18:15-18:30	0	
00:30-00:45	0		06:30-06:45	0		12:30-12:45	0		18:30-18:45	0	
00:45-01:00	0	0	06:45-07:00	0	0	12:45-13:00	0	0	18:45-19:00	0	0
		( 0)			( 0)			( 0)			( 154)
01:00-01:15	0		07:00-07:15	0		13:00-13:15	0		19:00-19:15	0	
01:15-01:30	0		07:15-07:30	0		13:15-13:30	0		19:15-19:30	0	
01:30-01:45	0		07:30-07:45	0		13:30-13:45	154		19:30-19:45	0	
01:45-02:00	0	0	07:45-08:00	0	0	13:45-14:00	0	154	19:45-20:00	0	0
		( 0)			( 0)			( 154)			( 154)
02:00-02:15	0		08:00-08:15	0		14:00-14:15	0		20:00-20:15	0	
02:15-02:30	0		08:15-08:30	0		14:15-14:30	0		20:15-20:30	0	
02:30-02:45	0		08:30-08:45	0		14:30-14:45	0		20:30-20:45	0	
02:45-03:00	0	0	08:45-09:00	0	0	14:45-15:00	0	0	20:45-21:00	0	0
		( 0)			( 0)			( 154)			( 154)
03:00-03:15	0		09:00-09:15	0		15:00-15:15	0		21:00-21:15	0	
03:15-03:30	0		09:15-09:30	0		15:15-15:30	0		21:15-21:30	0	
03:30-03:45	0		09:30-09:45	0		15:30-15:45	0		21:30-21:45	0	
03:45-04:00	0	0	09:45-10:00	0	0	15:45-16:00	0	0	21:45-22:00	0	0
		( 0)			( 0)			( 154)			( 154)
04:00-04:15	0		10:00-10:15	0		16:00-16:15	0		22:00-22:15	0	
04:15-04:30	0		10:15-10:30	0		16:15-16:30	0		22:15-22:30	0	
04:30-04:45	0		10:30-10:45	0		16:30-16:45	0		22:30-22:45	0	
04:45-05:00	0	0	10:45-11:00	0	0	16:45-17:00	0	0	22:45-23:00	0	0
		( 0)			( 0)			( 154)			( 154)
05:00-05:15	0		11:00-11:15	0		17:00-17:15	0		23:00-23:15	0	
05:15-05:30	0		11:15-11:30	0		17:15-17:30	0		23:15-23:30	0	
05:30-05:45	0		11:30-11:45	0		17:30-17:45	0		23:30-23:45	0	
05:45-06:00	0	0	11:45-12:00	0	0	17:45-18:00	0	0	23:45-24:00	0	0
		( 0)			( 0)			( 154)			( 154)

AM PEAK HIGHEST HOUR VOLUME: 0  
AM PEAK HOUR STARTING TIME:

PM PEAK HIGHEST HOUR VOLUME: 154  
PM PEAK HOUR STARTING TIME: 12:45

DAILY TOTAL: 154

DAILY PEAK HOUR START TIME: 12:45

DAILY PEAK VOLUME: 154

( ) -- INDICATES CUMULATIVE HOURLY TOTAL

\* -- INDICATES THE START DAY

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 12/11/90

WEATHER: CLEAR

LOCATION:

TUBE NUMBER: This is 2 of 2 TUBES

SITE NO:

DIRECTION OF FLOW: NORTHBOUND

DAY # 1

EAST SIDE FR BEFOR NB MILO EXIT

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	0		06:00-06:15	0		12:00-12:15	2		*18:00-18:15	0	
00:15-00:30	0		06:15-06:30	4		12:15-12:30	0		*18:15-18:30	0	
00:30-00:45	0		06:30-06:45	0		12:30-12:45	2		*18:30-18:45	0	
00:45-01:00	0	0 ( 0)	06:45-07:00	0	4 ( 4)	12:45-13:00	0	4 ( 26)	*18:45-19:00	0	0 ( 48)
01:00-01:15	0		07:00-07:15	0		13:00-13:15	2		*19:00-19:15	0	
01:15-01:30	0		07:15-07:30	0		13:15-13:30	0		*19:15-19:30	0	
01:30-01:45	0		07:30-07:45	0		13:30-13:45	4		*19:30-19:45	0	
01:45-02:00	0	0 ( 0)	07:45-08:00	0	0 ( 4)	*13:45-14:00	0	6 ( 32)	*19:45-20:00	4	4 ( 52)
02:00-02:15	0		08:00-08:15	0		*14:00-14:15	0		*20:00-20:15	0	
02:15-02:30	0		08:15-08:30	4		*14:15-14:30	0		*20:15-20:30	0	
02:30-02:45	0		08:30-08:45	0		*14:30-14:45	0		*20:30-20:45	0	
02:45-03:00	0	0 ( 0)	08:45-09:00	6	10 ( 14)	*14:45-15:00	0	0 ( 32)	*20:45-21:00	0	0 ( 52)
03:00-03:15	0		09:00-09:15	0		*15:00-15:15	0		*21:00-21:15	0	
03:15-03:30	0		09:15-09:30	2		*15:15-15:30	0		*21:15-21:30	0	
03:30-03:45	0		09:30-09:45	0		*15:30-15:45	2		*21:30-21:45	0	
03:45-04:00	0	0 ( 0)	09:45-10:00	0	2 ( 16)	*15:45-16:00	0	2 ( 34)	*21:45-22:00	0	0 ( 52)
04:00-04:15	0		10:00-10:15	0		*16:00-16:15	0		*22:00-22:15	0	
04:15-04:30	0		10:15-10:30	2		*16:15-16:30	0		*22:15-22:30	0	
04:30-04:45	0		10:30-10:45	0		*16:30-16:45	0		*22:30-22:45	0	
04:45-05:00	0	0 ( 0)	10:45-11:00	0	2 ( 18)	*16:45-17:00	8	8 ( 42)	*22:45-23:00	0	0 ( 52)
05:00-05:15	0		11:00-11:15	0		*17:00-17:15	2		*23:00-23:15	4	
05:15-05:30	0		11:15-11:30	0		*17:15-17:30	0		*23:15-23:30	0	
05:30-05:45	0		11:30-11:45	4		*17:30-17:45	0		*23:30-23:45	0	
05:45-06:00	0	0 ( 0)	11:45-12:00	0	4 ( 22)	*17:45-18:00	4	6 ( 48)	*23:45-24:00	0	4 ( 56)

AM PEAK HIGHEST HOUR VOLUME: 10  
AM PEAK HOUR STARTING TIME: 08:00

PM PEAK HIGHEST HOUR VOLUME: 10  
PM PEAK HOUR STARTING TIME: 16:15

DAILY TOTAL: 56

DAILY PEAK HOUR START TIME: 08:00

DAILY PEAK VOLUME: 10

( ) -- INDICATES CUMULATIVE HOURLY TOTAL

\* -- INDICATES THE START DAY

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 12/11/90

SITE NO:

WEATHER: CLEAR

DIRECTION OF FLOW: SOUTHBOUND

LOCATION:

EAST SIDE FR BEFOR NB MILO EXIT

DAY # 1

TUBE NUMBER: This is 1 of 2 TUBES

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	0		06:00-06:15	0		12:00-12:15	2		*18:00-18:15	0	
00:15-00:30	0		06:15-06:30	4		12:15-12:30	0		*18:15-18:30	0	
00:30-00:45	0		06:30-06:45	0		12:30-12:45	0		*18:30-18:45	0	
00:45-01:00	0	0	06:45-07:00	0	4	12:45-13:00	0	2	*18:45-19:00	0	0
		( 0 )			( 4 )			( 24 )			( 32 )
01:00-01:15	0		07:00-07:15	0		13:00-13:15	2		*19:00-19:15	0	
01:15-01:30	0		07:15-07:30	0		13:15-13:30	0		*19:15-19:30	0	
01:30-01:45	0		07:30-07:45	0		13:30-13:45	0		*19:30-19:45	0	
01:45-02:00	0	0	07:45-08:00	0	0	*13:45-14:00	0	2	*19:45-20:00	4	4
		( 0 )			( 4 )			( 26 )			( 36 )
02:00-02:15	0		08:00-08:15	0		*14:00-14:15	0		*20:00-20:15	0	
02:15-02:30	0		08:15-08:30	4		*14:15-14:30	0		*20:15-20:30	0	
02:30-02:45	0		08:30-08:45	0		*14:30-14:45	0		*20:30-20:45	0	
02:45-03:00	0	0	08:45-09:00	6	10	*14:45-15:00	0	0	*20:45-21:00	0	0
		( 0 )			( 14 )			( 26 )			( 36 )
03:00-03:15	0		09:00-09:15	0		*15:00-15:15	0		*21:00-21:15	0	
03:15-03:30	0		09:15-09:30	2		*15:15-15:30	0		*21:15-21:30	0	
03:30-03:45	0		09:30-09:45	0		*15:30-15:45	2		*21:30-21:45	0	
03:45-04:00	0	0	09:45-10:00	0	2	*15:45-16:00	0	2	*21:45-22:00	0	0
		( 0 )			( 16 )			( 28 )			( 36 )
04:00-04:15	0		10:00-10:15	0		*16:00-16:15	0		*22:00-22:15	0	
04:15-04:30	0		10:15-10:30	2		*16:15-16:30	0		*22:15-22:30	0	
04:30-04:45	0		10:30-10:45	0		*16:30-16:45	0		*22:30-22:45	0	
04:45-05:00	0	0	10:45-11:00	0	2	*16:45-17:00	0	0	*22:45-23:00	0	0
		( 0 )			( 18 )			( 28 )			( 36 )
05:00-05:15	0		11:00-11:15	0		*17:00-17:15	0		*23:00-23:15	4	
05:15-05:30	0		11:15-11:30	0		*17:15-17:30	0		*23:15-23:30	0	
05:30-05:45	0		11:30-11:45	4		*17:30-17:45	0		*23:30-23:45	0	
05:45-06:00	0	0	11:45-12:00	0	4	*17:45-18:00	4	4	*23:45-24:00	0	4
		( 0 )			( 22 )			( 32 )			( 40 )

AM PEAK HIGHEST HOUR VOLUME: 10  
 AM PEAK HOUR STARTING TIME: 08:00

PM PEAK HIGHEST HOUR VOLUME: 4  
 PM PEAK HOUR STARTING TIME: 17:00

DAILY TOTAL: 40

DAILY PEAK HOUR START TIME: 08:00

DAILY PEAK VOLUME: 10

( ) -- INDICATES CUMULATIVE HOURLY TOTAL

\* -- INDICATES THE START DAY

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 13/11/90

WEATHER: CLEAR

LOCATION:

TUBE NUMBER: This is 1 of 1 TUBES

SITE NO:

DIRECTION OF FLOW: NORTHBOUND

DAY # 1

NORTHBOUND ENTRANCE FROM MILO RD

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	5		06:00-06:15	9		12:00-12:15	29		*18:00-18:15	28	
00:15-00:30	0		06:15-06:30	10		12:15-12:30	49		*18:15-18:30	17	
00:30-00:45	5		06:30-06:45	20		12:30-12:45	24		*18:30-18:45	21	
00:45-01:00	0	10 ( 10)	06:45-07:00	9	48 ( 180)	12:45-13:00	17	119 ( 670)	*18:45-19:00	11	77 (1236)
J1:00-01:15	8		07:00-07:15	20		13:00-13:15	31		*19:00-19:15	32	
01:15-01:30	10		07:15-07:30	33		13:15-13:30	44		*19:15-19:30	20	
01:30-01:45	4		07:30-07:45	14		13:30-13:45	7		*19:30-19:45	23	
01:45-02:00	10	32 ( 42)	07:45-08:00	6	73 ( 253)	13:45-14:00	1	83 ( 753)	*19:45-20:00	17	92 (1328)
J2:00-02:15	10		08:00-08:15	9		*14:00-14:15	5		*20:00-20:15	47	
J2:15-02:30	0		08:15-08:30	7		*14:15-14:30	15		*20:15-20:30	16	
02:30-02:45	0		08:30-08:45	9		*14:30-14:45	37		*20:30-20:45	22	
02:45-03:00	20	30 ( 72)	08:45-09:00	12	37 ( 290)	*14:45-15:00	9	66 ( 819)	*20:45-21:00	15	100 (1428)
03:00-03:15	10		09:00-09:15	29		*15:00-15:15	36		*21:00-21:15	22	
03:15-03:30	7		09:15-09:30	27		*15:15-15:30	24		*21:15-21:30	15	
03:30-03:45	5		09:30-09:45	12		*15:30-15:45	30		*21:30-21:45	20	
03:45-04:00	0	22 ( 94)	09:45-10:00	15	83 ( 373)	*15:45-16:00	9	99 ( 918)	*21:45-22:00	10	67 (1495)
J4:00-04:15	0		10:00-10:15	29		*16:00-16:15	24		*22:00-22:15	7	
04:15-04:30	4		10:15-10:30	15		*16:15-16:30	33		*22:15-22:30	5	
04:30-04:45	0		10:30-10:45	30		*16:30-16:45	39		*22:30-22:45	0	
04:45-05:00	7	11 ( 105)	10:45-11:00	15	89 ( 462)	*16:45-17:00	30	126 (1044)	*22:45-23:00	0	12 (1507)
05:00-05:15	0		11:00-11:15	20		*17:00-17:15	36		*23:00-23:15	6	
05:15-05:30	11		11:15-11:30	30		*17:15-17:30	19		*23:15-23:30	0	
05:30-05:45	16		11:30-11:45	3		*17:30-17:45	25		*23:30-23:45	10	
05:45-06:00	0	27 ( 132)	11:45-12:00	36	89 ( 551)	*17:45-18:00	35	115 (1159)	*23:45-24:00	5	21 (1528)

AM PEAK HIGHEST HOUR VOLUME: 95  
AM PEAK HOUR STARTING TIME: 10:30

PM PEAK HIGHEST HOUR VOLUME: 138  
PM PEAK HOUR STARTING TIME: 16:15

DAILY TOTAL: 1528

DAILY PEAK HOUR START TIME: 16:15

DAILY PEAK VOLUME: 138

( ) -- INDICATES CUMULATIVE HOURLY TOTAL

\* -- INDICATES THE START DAY



TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 12/11/90

WEATHER: CLEAR

LOCATION:

TUBE NUMBER: This is 1 of 1 TUBES

SITE NO:

DIRECTION OF FLOW: WESTBOUND

DAY # 1

WESTBOUND MILO RD UNDER BRIDGE

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	2		06:00-06:15	10		12:00-12:15	70		*18:00-18:15	76	
00:15-00:30	2		06:15-06:30	37		12:15-12:30	122		*18:15-18:30	47	
00:30-00:45	12		06:30-06:45	10		12:30-12:45	59		*18:30-18:45	26	
00:45-01:00	7	23 ( 23)	06:45-07:00	14	71 ( 133)	12:45-13:00	175	426 (2752)	*18:45-19:00	21	170 (4757)
01:00-01:15	0		07:00-07:15	35		*13:00-13:15	30		*19:00-19:15	15	
01:15-01:30	5		07:15-07:30	85		*13:15-13:30	99		*19:15-19:30	16	
01:30-01:45	0		07:30-07:45	88		*13:30-13:45	92		*19:30-19:45	13	
01:45-02:00	0	5 ( 28)	07:45-08:00	149	357 ( 490)	*13:45-14:00	96	317 (3069)	*19:45-20:00	24	68 (4825)
02:00-02:15	0		08:00-08:15	185		*14:00-14:15	120		*20:00-20:15	28	
02:15-02:30	0		08:15-08:30	144		*14:15-14:30	106		*20:15-20:30	8	
02:30-02:45	13		08:30-08:45	147		*14:30-14:45	96		*20:30-20:45	15	
02:45-03:00	2	15 ( 43)	08:45-09:00	193	669 (1159)	*14:45-15:00	103	425 (3494)	*20:45-21:00	11	62 (4887)
03:00-03:15	0		09:00-09:15	127		*15:00-15:15	116		*21:00-21:15	6	
03:15-03:30	0		09:15-09:30	105		*15:15-15:30	115		*21:15-21:30	22	
03:30-03:45	0		09:30-09:45	126		*15:30-15:45	104		*21:30-21:45	6	
03:45-04:00	0	0 ( 43)	09:45-10:00	81	439 (1598)	*15:45-16:00	82	417 (3911)	*21:45-22:00	8	42 (4929)
04:00-04:15	0		10:00-10:15	96		*16:00-16:15	82		*22:00-22:15	15	
04:15-04:30	0		10:15-10:30	119		*16:15-16:30	60		*22:15-22:30	12	
04:30-04:45	0		10:30-10:45	86		*16:30-16:45	92		*22:30-22:45	6	
04:45-05:00	0	0 ( 43)	10:45-11:00	67	368 (1966)	*16:45-17:00	89	323 (4234)	*22:45-23:00	4	37 (4966)
05:00-05:15	0		11:00-11:15	74		*17:00-17:15	89		*23:00-23:15	6	
05:15-05:30	2		11:15-11:30	119		*17:15-17:30	72		*23:15-23:30	9	
05:30-05:45	4		11:30-11:45	106		*17:30-17:45	110		*23:30-23:45	0	
05:45-06:00	13	19 ( 62)	11:45-12:00	61	360 (2326)	*17:45-18:00	82	353 (4587)	*23:45-24:00	2	17 (4983)

AM PEAK HIGHEST HOUR VOLUME: 669  
AM PEAK HOUR STARTING TIME: 08:00

PM PEAK HIGHEST HOUR VOLUME: 438  
PM PEAK HOUR STARTING TIME: 14:45

DAILY TOTAL: 4983

DAILY PEAK HOUR START TIME: 08:00

DAILY PEAK VOLUME: 669

( ) -- INDICATES CUMULATIVE HOURLY TOTAL

\* -- INDICATES THE START DAY

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 12/11/90

WEATHER: CLEAR

LOCATION:

WESTBOUND MILO RD UNDER BRIDGE

TUBE NUMBER: This is 1 of 1 TUBES

SITE NO:

DIRECTION OF FLOW: WESTBOUND

DAY # 2

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	0		06:00-06:15	0		12:00-12:15	0		18:00-18:15	0	
00:15-00:30	0		06:15-06:30	0		12:15-12:30	0		18:15-18:30	0	
00:30-00:45	0		06:30-06:45	0		12:30-12:45	0		18:30-18:45	0	
00:45-01:00	0	0	06:45-07:00	0	0	12:45-13:00	0	0	18:45-19:00	0	0
		( 0)			( 0)			( 0)			( 379)
01:00-01:15	0		07:00-07:15	0		13:00-13:15	98		19:00-19:15	0	
01:15-01:30	0		07:15-07:30	0		13:15-13:30	121		19:15-19:30	0	
01:30-01:45	0		07:30-07:45	0		13:30-13:45	119		19:30-19:45	0	
01:45-02:00	0	0	07:45-08:00	0	0	13:45-14:00	40	378	19:45-20:00	0	0
		( 0)			( 0)			( 378)			( 379)
02:00-02:15	0		08:00-08:15	0		14:00-14:15	1		20:00-20:15	0	
02:15-02:30	0		08:15-08:30	0		14:15-14:30	0		20:15-20:30	0	
02:30-02:45	0		08:30-08:45	0		14:30-14:45	0		20:30-20:45	0	
02:45-03:00	0	0	08:45-09:00	0	0	14:45-15:00	0	1	20:45-21:00	0	0
		( 0)			( 0)			( 379)			( 379)
03:00-03:15	0		09:00-09:15	0		15:00-15:15	0		21:00-21:15	0	
03:15-03:30	0		09:15-09:30	0		15:15-15:30	0		21:15-21:30	0	
03:30-03:45	0		09:30-09:45	0		15:30-15:45	0		21:30-21:45	0	
03:45-04:00	0	0	09:45-10:00	0	0	15:45-16:00	0	0	21:45-22:00	0	0
		( 0)			( 0)			( 379)			( 379)
04:00-04:15	0		10:00-10:15	0		16:00-16:15	0		22:00-22:15	0	
04:15-04:30	0		10:15-10:30	0		16:15-16:30	0		22:15-22:30	0	
04:30-04:45	0		10:30-10:45	0		16:30-16:45	0		22:30-22:45	0	
04:45-05:00	0	0	10:45-11:00	0	0	16:45-17:00	0	0	22:45-23:00	0	0
		( 0)			( 0)			( 379)			( 379)
05:00-05:15	0		11:00-11:15	0		17:00-17:15	0		23:00-23:15	0	
05:15-05:30	0		11:15-11:30	0		17:15-17:30	0		23:15-23:30	0	
05:30-05:45	0		11:30-11:45	0		17:30-17:45	0		23:30-23:45	0	
05:45-06:00	0	0	11:45-12:00	0	0	17:45-18:00	0	0	23:45-24:00	0	0
		( 0)			( 0)			( 379)			( 379)

AM PEAK HIGHEST HOUR VOLUME: 0  
 AM PEAK HOUR STARTING TIME:

PM PEAK HIGHEST HOUR VOLUME: 378  
 PM PEAK HOUR STARTING TIME: 13:00

DAILY TOTAL: 379

DAILY PEAK HOUR START TIME: 13:00

DAILY PEAK VOLUME: 378

( ) -- INDICATES CUMULATIVE HOURLY TOTAL

\* -- INDICATES THE START DAY

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 12/11/90

SITE NO:

WEATHER:

DIRECTION OF FLOW: EASTBOUND

LOCATION:

EASTBOUND MILO RD UNDER BRIDGE

DAY # 1

TUBE NUMBER: This is 1 of 1 TUBES

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	5		06:00-06:15	12		12:00-12:15	30		*18:00-18:15	20	
00:15-00:30	0		06:15-06:30	6		12:15-12:30	28		*18:15-18:30	8	
00:30-00:45	5		06:30-06:45	71		12:30-12:45	21		*18:30-18:45	21	
00:45-01:00	9	19 ( 19)	06:45-07:00	31	120 ( 203)	12:45-13:00	25	104 ( 733)	*18:45-19:00	32	81 (1302)
01:00-01:15	5		07:00-07:15	14		*13:00-13:15	17		*19:00-19:15	16	
01:15-01:30	5		07:15-07:30	2		*13:15-13:30	11		*19:15-19:30	5	
01:30-01:45	0		07:30-07:45	20		*13:30-13:45	28		*19:30-19:45	28	
01:45-02:00	3	13 ( 32)	07:45-08:00	16	52 ( 255)	*13:45-14:00	8	64 ( 797)	*19:45-20:00	16	65 (1367)
02:00-02:15	0		08:00-08:15	16		*14:00-14:15	22		*20:00-20:15	13	
02:15-02:30	5		08:15-08:30	8		*14:15-14:30	45		*20:15-20:30	16	
02:30-02:45	0		08:30-08:45	12		*14:30-14:45	12		*20:30-20:45	35	
02:45-03:00	6	11 ( 43)	08:45-09:00	41	77 ( 332)	*14:45-15:00	21	100 ( 897)	*20:45-21:00	7	71 (1438)
03:00-03:15	0		09:00-09:15	20		*15:00-15:15	11		*21:00-21:15	0	
03:15-03:30	7		09:15-09:30	17		*15:15-15:30	23		*21:15-21:30	10	
03:30-03:45	7		09:30-09:45	22		*15:30-15:45	19		*21:30-21:45	13	
03:45-04:00	3	17 ( 60)	09:45-10:00	59	118 ( 450)	*15:45-16:00	40	93 ( 990)	*21:45-22:00	12	35 (1473)
04:00-04:15	5		10:00-10:15	6		*16:00-16:15	26		*22:00-22:15	5	
04:15-04:30	0		10:15-10:30	21		*16:15-16:30	18		*22:15-22:30	0	
04:30-04:45	0		10:30-10:45	33		*16:30-16:45	28		*22:30-22:45	16	
04:45-05:00	4	9 ( 69)	10:45-11:00	18	78 ( 528)	*16:45-17:00	42	114 (1104)	*22:45-23:00	11	32 (1505)
05:00-05:15	0		11:00-11:15	28		*17:00-17:15	3		*23:00-23:15	15	
05:15-05:30	11		11:15-11:30	9		*17:15-17:30	8		*23:15-23:30	5	
05:30-05:45	0		11:30-11:45	38		*17:30-17:45	69		*23:30-23:45	0	
05:45-06:00	3	14 ( 83)	11:45-12:00	26	101 ( 629)	*17:45-18:00	37	117 (1221)	*23:45-24:00	0	20 (1525)

AM PEAK HIGHEST HOUR VOLUME: 122  
AM PEAK HOUR STARTING TIME: 06:15

PM PEAK HIGHEST HOUR VOLUME: 134  
PM PEAK HOUR STARTING TIME: 17:15

DAILY TOTAL: 1525

DAILY PEAK HOUR START TIME: 17:15

DAILY PEAK VOLUME: 134

( ) -- INDICATES CUMULATIVE HOURLY TOTAL

\* -- INDICATES THE START DAY

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 12/11/90

WEATHER:

LOCATION:

TUBE NUMBER: This is 1 of 1 TUBES

SITE NO:

DIRECTION OF FLOW: EASTBOUND

DAY # 2

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	0		06:00-06:15	0		12:00-12:15	0		18:00-18:15	0	
00:15-00:30	0		06:15-06:30	0		12:15-12:30	0		18:15-18:30	0	
00:30-00:45	0		06:30-06:45	0		12:30-12:45	0		18:30-18:45	0	
00:45-01:00	0	0	06:45-07:00	0	0	12:45-13:00	0	0	18:45-19:00	0	0
		( 0 )			( 0 )			( 0 )			( 70 )
01:00-01:15	0		07:00-07:15	0		13:00-13:15	20		19:00-19:15	0	
01:15-01:30	0		07:15-07:30	0		13:15-13:30	21		19:15-19:30	0	
01:30-01:45	0		07:30-07:45	0		13:30-13:45	25		19:30-19:45	0	
01:45-02:00	0	0	07:45-08:00	0	0	13:45-14:00	3	69	19:45-20:00	0	0
		( 0 )			( 0 )			( 69 )			( 70 )
02:00-02:15	0		08:00-08:15	0		14:00-14:15	1		20:00-20:15	0	
02:15-02:30	0		08:15-08:30	0		14:15-14:30	0		20:15-20:30	0	
02:30-02:45	0		08:30-08:45	0		14:30-14:45	0		20:30-20:45	0	
02:45-03:00	0	0	08:45-09:00	0	0	14:45-15:00	0	1	20:45-21:00	0	0
		( 0 )			( 0 )			( 70 )			( 70 )
03:00-03:15	0		09:00-09:15	0		15:00-15:15	0		21:00-21:15	0	
03:15-03:30	0		09:15-09:30	0		15:15-15:30	0		21:15-21:30	0	
03:30-03:45	0		09:30-09:45	0		15:30-15:45	0		21:30-21:45	0	
03:45-04:00	0	0	09:45-10:00	0	0	15:45-16:00	0	0	21:45-22:00	0	0
		( 0 )			( 0 )			( 70 )			( 70 )
04:00-04:15	0		10:00-10:15	0		16:00-16:15	0		22:00-22:15	0	
04:15-04:30	0		10:15-10:30	0		16:15-16:30	0		22:15-22:30	0	
04:30-04:45	0		10:30-10:45	0		16:30-16:45	0		22:30-22:45	0	
04:45-05:00	0	0	10:45-11:00	0	0	16:45-17:00	0	0	22:45-23:00	0	0
		( 0 )			( 0 )			( 70 )			( 70 )
05:00-05:15	0		11:00-11:15	0		17:00-17:15	0		23:00-23:15	0	
05:15-05:30	0		11:15-11:30	0		17:15-17:30	0		23:15-23:30	0	
05:30-05:45	0		11:30-11:45	0		17:30-17:45	0		23:30-23:45	0	
05:45-06:00	0	0	11:45-12:00	0	0	17:45-18:00	0	0	23:45-24:00	0	0
		( 0 )			( 0 )			( 70 )			( 70 )

AM PEAK HIGHEST HOUR VOLUME: 0  
AM PEAK HOUR STARTING TIME:

PM PEAK HIGHEST HOUR VOLUME: 69  
PM PEAK HOUR STARTING TIME: 13:00

DAILY TOTAL: 70

DAILY PEAK HOUR START TIME: 13:00

DAILY PEAK VOLUME: 69

( ) -- INDICATES CUMULATIVE HOURLY TOTAL

\* -- INDICATES THE START DAY

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90  
 WEATHER: CLEAR  
 LOCATION: WEST FR NORTH OF MINES RD  
 TUBE NUMBER: This is 1 of 2 TUBES

SITE NO:  
 DIRECTION OF FLOW: NORTHBOUND  
 DAY # 1  
 DATA FILE: DM1.000

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	0		06:00-06:15	3		*12:00-12:15	64		*18:00-18:15	61	
00:15-00:30	0		06:15-06:30	6		*12:15-12:30	76		*18:15-18:30	46	
00:30-00:45	0		06:30-06:45	11		*12:30-12:45	62		*18:30-18:45	36	
00:45-01:00	0	0	06:45-07:00	28	48	*12:45-13:00	93	295	*18:45-19:00	42	185
		( 0)			( 75)			(1672)			(3263)
01:00-01:15	1		07:00-07:15	14		*13:00-13:15	42		*19:00-19:15	33	
01:15-01:30	3		07:15-07:30	23		*13:15-13:30	74		*19:15-19:30	20	
01:30-01:45	0		07:30-07:45	49		*13:30-13:45	81		*19:30-19:45	20	
01:45-02:00	2	6	07:45-08:00	86	172	*13:45-14:00	52	249	*19:45-20:00	11	84
		( 6)			( 247)			(1921)			(3347)
02:00-02:15	0		08:00-08:15	102		*14:00-14:15	94		*20:00-20:15	6	
02:15-02:30	0		08:15-08:30	72		*14:15-14:30	82		*20:15-20:30	8	
02:30-02:45	2		08:30-08:45	87		*14:30-14:45	97		*20:30-20:45	7	
02:45-03:00	0	2	08:45-09:00	84	345	*14:45-15:00	64	337	*20:45-21:00	17	38
		( 8)			( 592)			(2258)			(3385)
03:00-03:15	0		09:00-09:15	73		*15:00-15:15	79		*21:00-21:15	13	
03:15-03:30	0		09:15-09:30	39		*15:15-15:30	81		*21:15-21:30	2	
03:30-03:45	0		09:30-09:45	92		*15:30-15:45	80		*21:30-21:45	4	
03:45-04:00	0	0	09:45-10:00	63	267	*15:45-16:00	55	295	*21:45-22:00	10	29
		( 8)			( 859)			(2553)			(3414)
04:00-04:15	3		10:00-10:15	58		*16:00-16:15	62		*22:00-22:15	4	
04:15-04:30	0		10:15-10:30	55		*16:15-16:30	73		*22:15-22:30	2	
04:30-04:45	0		10:30-10:45	68		*16:30-16:45	83		*22:30-22:45	4	
04:45-05:00	2	5	10:45-11:00	76	257	*16:45-17:00	59	277	*22:45-23:00	4	14
		( 13)			(1116)			(2830)			(3428)
05:00-05:15	0		11:00-11:15	43		*17:00-17:15	77		*23:00-23:15	3	
05:15-05:30	0		11:15-11:30	60		*17:15-17:30	51		*23:15-23:30	5	
05:30-05:45	0		*11:30-11:45	86		*17:30-17:45	49		*23:30-23:45	3	
05:45-06:00	14	14	*11:45-12:00	72	261	*17:45-18:00	71	248	*23:45-24:00	1	12
		( 27)			(1377)			(3078)			(3440)

AM PEAK HIGHEST HOUR VOLUME: 347  
 AM PEAK HOUR STARTING TIME: 07:45

PM PEAK HIGHEST HOUR VOLUME: 337  
 PM PEAK HOUR STARTING TIME: 14:00

DAILY TOTAL: 3440

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90

WEATHER: CLEAR

LOCATION: WEST FR NORTH OF MINES RD

TUBE NUMBER: This is 1 of 2 TUBES

SITE NO:

DIRECTION OF FLOW: NORTHBOUND

DAY # 2

DATA FILE: DM1.000

HOURLY		HOURLY		HOURLY		HOURLY	
TIME	VOLUME	TIME	VOLUME	TIME	VOLUME	TIME	VOLUME
00:00-00:15	0	06:00-06:15	0	12:00-12:15	79	18:00-18:15	0
00:15-00:30	0	06:15-06:30	0	12:15-12:30	61	18:15-18:30	0
00:30-00:45	0	06:30-06:45	0	12:30-12:45	0	18:30-18:45	0
00:45-01:00	0	06:45-07:00	0	12:45-13:00	0	18:45-19:00	0
	( 0)		( 0)		( 255)		( 255)
01:00-01:15	0	07:00-07:15	0	13:00-13:15	0	19:00-19:15	0
01:15-01:30	0	07:15-07:30	0	13:15-13:30	0	19:15-19:30	0
01:30-01:45	0	07:30-07:45	0	13:30-13:45	0	19:30-19:45	0
01:45-02:00	0	07:45-08:00	0	13:45-14:00	0	19:45-20:00	0
	( 0)		( 0)		( 255)		( 255)
02:00-02:15	0	08:00-08:15	0	14:00-14:15	0	20:00-20:15	0
02:15-02:30	0	08:15-08:30	0	14:15-14:30	0	20:15-20:30	0
02:30-02:45	0	08:30-08:45	0	14:30-14:45	0	20:30-20:45	0
02:45-03:00	0	08:45-09:00	0	14:45-15:00	0	20:45-21:00	0
	( 0)		( 0)		( 255)		( 255)
03:00-03:15	0	09:00-09:15	0	15:00-15:15	0	21:00-21:15	0
03:15-03:30	0	09:15-09:30	0	15:15-15:30	0	21:15-21:30	0
03:30-03:45	0	09:30-09:45	0	15:30-15:45	0	21:30-21:45	0
03:45-04:00	0	09:45-10:00	0	15:45-16:00	0	21:45-22:00	0
	( 0)		( 0)		( 255)		( 255)
04:00-04:15	0	10:00-10:15	0	16:00-16:15	0	22:00-22:15	0
04:15-04:30	0	10:15-10:30	0	16:15-16:30	0	22:15-22:30	0
04:30-04:45	0	10:30-10:45	0	16:30-16:45	0	22:30-22:45	0
04:45-05:00	0	10:45-11:00	0	16:45-17:00	0	22:45-23:00	0
	( 0)		( 0)		( 255)		( 255)
05:00-05:15	0	11:00-11:15	0	17:00-17:15	0	23:00-23:15	0
05:15-05:30	0	11:15-11:30	0	17:15-17:30	0	23:15-23:30	0
05:30-05:45	0	11:30-11:45	69	17:30-17:45	0	23:30-23:45	0
05:45-06:00	0	11:45-12:00	46	17:45-18:00	0	23:45-24:00	0
	( 0)		( 115)		( 255)		( 255)

AM PEAK HIGHEST HOUR VOLUME: 115  
 AM PEAK HOUR STARTING TIME: 11:00

PM PEAK HIGHEST HOUR VOLUME: 140  
 PM PEAK HOUR STARTING TIME: 12:00

DAILY TOTAL: 255

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90  
 WEATHER: CLEAR  
 LOCATION: WEST FR NORTH OF MINES RD  
 TUBE NUMBER: This is 2 of 2 TUBES

SITE NO:  
 DIRECTION OF FLOW: SOUTHBOUND  
 DAY # 1  
 DATA FILE: DM1.000

HOURLY		HOURLY		HOURLY		HOURLY	
TIME	VOLUME	TIME	VOLUME	TIME	VOLUME	TIME	VOLUME
00:00-00:15	8	06:00-06:15	8	*12:00-12:15	58	*18:00-18:15	67
00:15-00:30	0	06:15-06:30	2	*12:15-12:30	71	*18:15-18:30	72
00:30-00:45	0	06:30-06:45	2	*12:30-12:45	63	*18:30-18:45	35
00:45-01:00	0	06:45-07:00	8	*12:45-13:00	66	*18:45-19:00	56
	( 8)		( 94)		(1334)		(2856)
01:00-01:15	15	07:00-07:15	4	*13:00-13:15	80	*19:00-19:15	50
01:15-01:30	7	07:15-07:30	16	*13:15-13:30	82	*19:15-19:30	31
01:30-01:45	0	07:30-07:45	11	*13:30-13:45	76	*19:30-19:45	31
01:45-02:00	2	07:45-08:00	23	*13:45-14:00	42	*19:45-20:00	25
	( 32)		( 148)		(1614)		(2993)
02:00-02:15	0	08:00-08:15	29	*14:00-14:15	64	*20:00-20:15	10
02:15-02:30	2	08:15-08:30	35	*14:15-14:30	50	*20:15-20:30	24
02:30-02:45	5	08:30-08:45	55	*14:30-14:45	68	*20:30-20:45	28
02:45-03:00	5	08:45-09:00	28	*14:45-15:00	55	*20:45-21:00	8
	( 44)		( 295)		(1851)		(3063)
03:00-03:15	2	09:00-09:15	71	*15:00-15:15	99	*21:00-21:15	14
03:15-03:30	0	09:15-09:30	44	*15:15-15:30	40	*21:15-21:30	14
03:30-03:45	0	09:30-09:45	76	*15:30-15:45	44	*21:30-21:45	2
03:45-04:00	6	09:45-10:00	60	*15:45-16:00	58	*21:45-22:00	8
	( 52)		( 546)		(2092)		(3101)
04:00-04:15	0	10:00-10:15	69	*16:00-16:15	60	*22:00-22:15	14
04:15-04:30	5	10:15-10:30	63	*16:15-16:30	51	*22:15-22:30	0
04:30-04:45	0	10:30-10:45	72	*16:30-16:45	67	*22:30-22:45	16
04:45-05:00	5	10:45-11:00	65	*16:45-17:00	63	*22:45-23:00	2
	( 62)		( 815)		(2333)		(3133)
05:00-05:15	10	11:00-11:15	64	*17:00-17:15	48	*23:00-23:15	14
05:15-05:30	0	11:15-11:30	49	*17:15-17:30	82	*23:15-23:30	13
05:30-05:45	0	*11:30-11:45	38	*17:30-17:45	56	*23:30-23:45	9
05:45-06:00	2	*11:45-12:00	110	*17:45-18:00	107	*23:45-24:00	6
	( 74)		(1076)		(2626)		(3175)

AM PEAK HIGHEST HOUR VOLUME: 269  
 AM PEAK HOUR STARTING TIME: 10:00

PM PEAK HIGHEST HOUR VOLUME: 312  
 PM PEAK HOUR STARTING TIME: 17:15

DAILY TOTAL: 3175

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90  
 WEATHER: CLEAR  
 LOCATION: WEST FR NORTH OF MINES RD  
 TUBE NUMBER: This is 2 of 2 TUBES

SITE NO:  
 DIRECTION OF FLOW: SOUTHBOUND  
 DAY # 2  
 DATA FILE: DM1.000

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	0		06:00-06:15	0		12:00-12:15	95		18:00-18:15	0	
00:15-00:30	0		06:15-06:30	0		12:15-12:30	32		18:15-18:30	0	
00:30-00:45	0		06:30-06:45	0		12:30-12:45	0		18:30-18:45	0	
00:45-01:00	0	0	06:45-07:00	0	0	12:45-13:00	0	127	18:45-19:00	0	0
		( 0)			( 0)			( 238)			( 238)
01:00-01:15	0		07:00-07:15	0		13:00-13:15	0		19:00-19:15	0	
01:15-01:30	0		07:15-07:30	0		13:15-13:30	0		19:15-19:30	0	
01:30-01:45	0		07:30-07:45	0		13:30-13:45	0		19:30-19:45	0	
01:45-02:00	0	0	07:45-08:00	0	0	13:45-14:00	0	0	19:45-20:00	0	0
		( 0)			( 0)			( 238)			( 238)
02:00-02:15	0		08:00-08:15	0		14:00-14:15	0		20:00-20:15	0	
02:15-02:30	0		08:15-08:30	0		14:15-14:30	0		20:15-20:30	0	
02:30-02:45	0		08:30-08:45	0		14:30-14:45	0		20:30-20:45	0	
02:45-03:00	0	0	08:45-09:00	0	0	14:45-15:00	0	0	20:45-21:00	0	0
		( 0)			( 0)			( 238)			( 238)
03:00-03:15	0		09:00-09:15	0		15:00-15:15	0		21:00-21:15	0	
03:15-03:30	0		09:15-09:30	0		15:15-15:30	0		21:15-21:30	0	
03:30-03:45	0		09:30-09:45	0		15:30-15:45	0		21:30-21:45	0	
03:45-04:00	0	0	09:45-10:00	0	0	15:45-16:00	0	0	21:45-22:00	0	0
		( 0)			( 0)			( 238)			( 238)
04:00-04:15	0		10:00-10:15	0		16:00-16:15	0		22:00-22:15	0	
04:15-04:30	0		10:15-10:30	0		16:15-16:30	0		22:15-22:30	0	
04:30-04:45	0		10:30-10:45	0		16:30-16:45	0		22:30-22:45	0	
04:45-05:00	0	0	10:45-11:00	0	0	16:45-17:00	0	0	22:45-23:00	0	0
		( 0)			( 0)			( 238)			( 238)
05:00-05:15	0		11:00-11:15	0		17:00-17:15	0		23:00-23:15	0	
05:15-05:30	0		11:15-11:30	0		17:15-17:30	0		23:15-23:30	0	
05:30-05:45	0		11:30-11:45	36		17:30-17:45	0		23:30-23:45	0	
05:45-06:00	0	0	11:45-12:00	75	111	17:45-18:00	0	0	23:45-24:00	0	0
		( 0)			( 111)			( 238)			( 238)

AM PEAK HIGHEST HOUR VOLUME: 111  
 AM PEAK HOUR STARTING TIME: 11:00

PM PEAK HIGHEST HOUR VOLUME: 127  
 PM PEAK HOUR STARTING TIME: 12:00

DAILY TOTAL: 238



TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90  
 WEATHER: CLEAR  
 LOCATION: MINES RD JUST WEST OF RR TRACKS  
 TUBE NUMBER: This is 2 of 2 TUBES

SITE NO:  
 DIRECTION OF FLOW: NORTHBOUND  
 DAY # 1  
 DATA FILE: DM2.011

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	63		06:00-06:15	62		*12:00-12:15	305		*18:00-18:15	384	
00:15-00:30	41		06:15-06:30	117		*12:15-12:30	267		*18:15-18:30	360	
00:30-00:45	45		06:30-06:45	144		*12:30-12:45	309		*18:30-18:45	256	
00:45-01:00	25	174 ( 174)	06:45-07:00	180	503 (1289)	*12:45-13:00	288	1169 (8546)	*18:45-19:00	275	1275 (17063)
01:00-01:15	25		07:00-07:15	196		*13:00-13:15	389		*19:00-19:15	255	
01:15-01:30	35		07:15-07:30	249		*13:15-13:30	351		*19:15-19:30	232	
01:30-01:45	17		07:30-07:45	361		*13:30-13:45	345		*19:30-19:45	194	
01:45-02:00	26	103 ( 277)	07:45-08:00	458	1264 (2553)	*13:45-14:00	409	1494 (10040)	*19:45-20:00	143	824 (17887)
02:00-02:15	36		08:00-08:15	418		*14:00-14:15	342		*20:00-20:15	198	
02:15-02:30	35		08:15-08:30	290		*14:15-14:30	321		*20:15-20:30	156	
02:30-02:45	26		08:30-08:45	348		*14:30-14:45	322		*20:30-20:45	197	
02:45-03:00	22	119 ( 396)	08:45-09:00	385	1441 (3994)	*14:45-15:00	329	1314 (11354)	*20:45-21:00	163	714 (18601)
03:00-03:15	24		09:00-09:15	280		*15:00-15:15	337		*21:00-21:15	160	
03:15-03:30	18		09:15-09:30	294		*15:15-15:30	329		*21:15-21:30	134	
03:30-03:45	25		09:30-09:45	292		*15:30-15:45	366		*21:30-21:45	155	
03:45-04:00	29	96 ( 492)	09:45-10:00	258	1124 (5118)	*15:45-16:00	335	1367 (12721)	*21:45-22:00	144	593 (19194)
04:00-04:15	16		10:00-10:15	262		*16:00-16:15	373		*22:00-22:15	140	
04:15-04:30	29		10:15-10:30	299		*16:15-16:30	404		*22:15-22:30	114	
04:30-04:45	27		10:30-10:45	314		*16:30-16:45	409		*22:30-22:45	118	
04:45-05:00	30	102 ( 594)	10:45-11:00	297	1172 (6290)	*16:45-17:00	377	1563 (14284)	*22:45-23:00	65	437 (19631)
05:00-05:15	37		11:00-11:15	278		*17:00-17:15	355		*23:00-23:15	64	
05:15-05:30	48		*11:15-11:30	225		*17:15-17:30	379		*23:15-23:30	58	
05:30-05:45	53		*11:30-11:45	273		*17:30-17:45	408		*23:30-23:45	61	
05:45-06:00	54	192 ( 786)	*11:45-12:00	311	1087 (7377)	*17:45-18:00	362	1504 (15788)	*23:45-24:00	71	254 (19885)

AM PEAK HIGHEST HOUR VOLUME: 1527  
 AM PEAK HOUR STARTING TIME: 07:30

PM PEAK HIGHEST HOUR VOLUME: 1563  
 PM PEAK HOUR STARTING TIME: 16:00

DAILY TOTAL: 19885

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90  
 WEATHER: CLEAR  
 LOCATION: MINES RD JUST WEST OF RR TRACKS  
 TUBE NUMBER: This is 1 of 2 TUBES

SITE NO:  
 DIRECTION OF FLOW: SOUTHBOUND  
 DAY # 1  
 DATA FILE: DM2.011

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	57		06:00-06:15	70		*12:00-12:15	429		*18:00-18:15	439	
00:15-00:30	22		06:15-06:30	95		*12:15-12:30	380		*18:15-18:30	456	
00:30-00:45	26		06:30-06:45	117		*12:30-12:45	348		*18:30-18:45	407	
00:45-01:00	31	136 ( 136)	06:45-07:00	154	436 (1113)	*12:45-13:00	374	1531 (9059)	*18:45-19:00	323	1625 (18078)
01:00-01:15	39		07:00-07:15	171		*13:00-13:15	383		*19:00-19:15	256	
01:15-01:30	26		07:15-07:30	275		*13:15-13:30	260		*19:15-19:30	243	
01:30-01:45	31		07:30-07:45	424		*13:30-13:45	268		*19:30-19:45	219	
01:45-02:00	16	112 ( 248)	07:45-08:00	413	1283 (2396)	*13:45-14:00	292	1203 (10262)	*19:45-20:00	192	910 (18988)
02:00-02:15	33		08:00-08:15	350		*14:00-14:15	369		*20:00-20:15	161	
02:15-02:30	20		08:15-08:30	340		*14:15-14:30	310		*20:15-20:30	155	
02:30-02:45	22		08:30-08:45	282		*14:30-14:45	325		*20:30-20:45	189	
02:45-03:00	24	99 ( 347)	08:45-09:00	321	1293 (3689)	*14:45-15:00	299	1303 (11565)	*20:45-21:00	155	660 (19648)
03:00-03:15	18		09:00-09:15	378		*15:00-15:15	353		*21:00-21:15	115	
03:15-03:30	25		09:15-09:30	350		*15:15-15:30	368		*21:15-21:30	143	
03:30-03:45	36		09:30-09:45	277		*15:30-15:45	375		*21:30-21:45	89	
03:45-04:00	28	107 ( 454)	09:45-10:00	325	1330 (5019)	*15:45-16:00	396	1492 (13057)	*21:45-22:00	120	467 (20115)
04:00-04:15	21		10:00-10:15	278		*16:00-16:15	354		*22:00-22:15	74	
04:15-04:30	16		10:15-10:30	268		*16:15-16:30	420		*22:15-22:30	91	
04:30-04:45	28		10:30-10:45	297		*16:30-16:45	432		*22:30-22:45	94	
04:45-05:00	19	84 ( 538)	10:45-11:00	298	1141 (6160)	*16:45-17:00	325	1531 (14588)	*22:45-23:00	85	344 (20459)
05:00-05:15	14		11:00-11:15	273		*17:00-17:15	486		*23:00-23:15	45	
05:15-05:30	31		*11:15-11:30	366		*17:15-17:30	465		*23:15-23:30	39	
05:30-05:45	51		*11:30-11:45	341		*17:30-17:45	462		*23:30-23:45	53	
05:45-06:00	43	139 ( 677)	*11:45-12:00	388	1368 (7528)	*17:45-18:00	452	1865 (16453)	*23:45-24:00	44	181 (20640)

AM PEAK HIGHEST HOUR VOLUME: 1527  
 AM PEAK HOUR STARTING TIME: 07:30

PM PEAK HIGHEST HOUR VOLUME: 1865  
 PM PEAK HOUR STARTING TIME: 17:00

DAILY TOTAL: 20640

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90  
 WEATHER: CLEAR  
 LOCATION: MINES RD JUST WEST OF RR TRACKS  
 TUBE NUMBER: This is 2 of 2 TUBES

SITE NO:  
 DIRECTION OF FLOW: NORTHBOUND  
 DAY # 2  
 DATA FILE: DM2.011

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	0		06:00-06:15	0		12:00-12:15	361		18:00-18:15	0	
00:15-00:30	0		06:15-06:30	0		12:15-12:30	80		18:15-18:30	0	
00:30-00:45	0		06:30-06:45	0		12:30-12:45	0		18:30-18:45	0	
00:45-01:00	0	0	06:45-07:00	0	0	12:45-13:00	0	441	18:45-19:00	0	0
		( 0)			( 0)			(1243)			(1243)
01:00-01:15	0		07:00-07:15	0		13:00-13:15	0		19:00-19:15	0	
01:15-01:30	0		07:15-07:30	0		13:15-13:30	0		19:15-19:30	0	
01:30-01:45	0		07:30-07:45	0		13:30-13:45	0		19:30-19:45	0	
01:45-02:00	0	0	07:45-08:00	0	0	13:45-14:00	0	0	19:45-20:00	0	0
		( 0)			( 0)			(1243)			(1243)
02:00-02:15	0		08:00-08:15	0		14:00-14:15	0		20:00-20:15	0	
02:15-02:30	0		08:15-08:30	0		14:15-14:30	0		20:15-20:30	0	
02:30-02:45	0		08:30-08:45	0		14:30-14:45	0		20:30-20:45	0	
02:45-03:00	0	0	08:45-09:00	0	0	14:45-15:00	0	0	20:45-21:00	0	0
		( 0)			( 0)			(1243)			(1243)
03:00-03:15	0		09:00-09:15	0		15:00-15:15	0		21:00-21:15	0	
03:15-03:30	0		09:15-09:30	0		15:15-15:30	0		21:15-21:30	0	
03:30-03:45	0		09:30-09:45	0		15:30-15:45	0		21:30-21:45	0	
03:45-04:00	0	0	09:45-10:00	0	0	15:45-16:00	0	0	21:45-22:00	0	0
		( 0)			( 0)			(1243)			(1243)
04:00-04:15	0		10:00-10:15	0		16:00-16:15	0		22:00-22:15	0	
04:15-04:30	0		10:15-10:30	0		16:15-16:30	0		22:15-22:30	0	
04:30-04:45	0		10:30-10:45	0		16:30-16:45	0		22:30-22:45	0	
04:45-05:00	0	0	10:45-11:00	0	0	16:45-17:00	0	0	22:45-23:00	0	0
		( 0)			( 0)			(1243)			(1243)
05:00-05:15	0		11:00-11:15	0		17:00-17:15	0		23:00-23:15	0	
05:15-05:30	0		11:15-11:30	263		17:15-17:30	0		23:15-23:30	0	
05:30-05:45	0		11:30-11:45	260		17:30-17:45	0		23:30-23:45	0	
05:45-06:00	0	0	11:45-12:00	279	802	17:45-18:00	0	0	23:45-24:00	0	0
		( 0)			( 802)			(1243)			(1243)

AM PEAK HIGHEST HOUR VOLUME: 802  
 AM PEAK HOUR STARTING TIME: 11:00

PM PEAK HIGHEST HOUR VOLUME: 441  
 PM PEAK HOUR STARTING TIME: 12:00

DAILY TOTAL: 1243

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90  
 WEATHER: CLEAR  
 LOCATION: SANTA MARIA JUST SOUTH OF MINES RD  
 TUBE NUMBER: This is 2 of 2 TUBES

SITE NO:  
 DIRECTION OF FLOW: NORTHBOUND  
 DAY # 1  
 DATA FILE: DM3.001

TIME	HOURLY VOLUME	TIME	HOURLY VOLUME	TIME	HOURLY VOLUME	TIME	HOURLY VOLUME
00:00-00:15	61	06:00-06:15	66	*12:00-12:15	389	*18:00-18:15	441
00:15-00:30	47	06:15-06:30	130	*12:15-12:30	331	*18:15-18:30	362
00:30-00:45	41	06:30-06:45	159	*12:30-12:45	371	*18:30-18:45	293
00:45-01:00	25	06:45-07:00	229	*12:45-13:00	379	*18:45-19:00	306
	( 174)		(1404)		(10310)		(20270)
01:00-01:15	29	07:00-07:15	227	*13:00-13:15	414	*19:00-19:15	291
01:15-01:30	28	07:15-07:30	311	*13:15-13:30	379	*19:15-19:30	227
01:30-01:45	21	07:30-07:45	432	*13:30-13:45	411	*19:30-19:45	207
01:45-02:00	24	07:45-08:00	551	*13:45-14:00	433	*19:45-20:00	144
	( 276)		(2925)		(11947)		(21139)
02:00-02:15	36	08:00-08:15	545	*14:00-14:15	426	*20:00-20:15	200
02:15-02:30	32	08:15-08:30	353	*14:15-14:30	416	*20:15-20:30	165
02:30-02:45	28	08:30-08:45	460	*14:30-14:45	412	*20:30-20:45	190
02:45-03:00	19	08:45-09:00	461	*14:45-15:00	386	*20:45-21:00	173
	( 391)		(4744)		(13587)		(21867)
03:00-03:15	24	09:00-09:15	371	*15:00-15:15	440	*21:00-21:15	185
03:15-03:30	18	09:15-09:30	333	*15:15-15:30	425	*21:15-21:30	132
03:30-03:45	27	09:30-09:45	375	*15:30-15:45	450	*21:30-21:45	165
03:45-04:00	32	09:45-10:00	305	*15:45-16:00	382	*21:45-22:00	154
	( 492)		(6128)		(15284)		(22503)
04:00-04:15	19	10:00-10:15	324	*16:00-16:15	450	*22:00-22:15	136
04:15-04:30	29	10:15-10:30	339	*16:15-16:30	485	*22:15-22:30	109
04:30-04:45	27	10:30-10:45	383	*16:30-16:45	472	*22:30-22:45	123
04:45-05:00	30	*10:45-11:00	223	*16:45-17:00	438	*22:45-23:00	70
	( 597)		(7397)		(17129)		(22941)
05:00-05:15	39	*11:00-11:15	353	*17:00-17:15	433	*23:00-23:15	70
05:15-05:30	48	*11:15-11:30	329	*17:15-17:30	420	*23:15-23:30	68
05:30-05:45	56	*11:30-11:45	381	*17:30-17:45	458	*23:30-23:45	66
05:45-06:00	80	*11:45-12:00	380	*17:45-18:00	428	*23:45-24:00	77
	( 820)		(8840)		(18868)		(23222)

AM PEAK HIGHEST HOUR VOLUME: 1909  
 AM PEAK HOUR STARTING TIME: 07:45

PM PEAK HIGHEST HOUR VOLUME: 1845  
 PM PEAK HOUR STARTING TIME: 16:00

DAILY TOTAL: 23222

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90  
 WEATHER: CLEAR  
 LOCATION: MINES RD JUST WEST OF RR TRACKS  
 TUBE NUMBER: This is 1 of 2 TUBES

SITE NO:  
 DIRECTION OF FLOW: SOUTHBOUND  
 DAY # 2  
 DATA FILE: DN2.011

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	0		06:00-06:15	0		12:00-12:15	494		18:00-18:15	0	
00:15-00:30	0		06:15-06:30	0		12:15-12:30	66		18:15-18:30	0	
00:30-00:45	0		06:30-06:45	0		12:30-12:45	0		18:30-18:45	0	
00:45-01:00	0	0	06:45-07:00	0	0	12:45-13:00	0	560	18:45-19:00	0	0
		( 0)			( 0)			(1579)			(1579)
01:00-01:15	0		07:00-07:15	0		13:00-13:15	0		19:00-19:15	0	
01:15-01:30	0		07:15-07:30	0		13:15-13:30	0		19:15-19:30	0	
01:30-01:45	0		07:30-07:45	0		13:30-13:45	0		19:30-19:45	0	
01:45-02:00	0	0	07:45-08:00	0	0	13:45-14:00	0	0	19:45-20:00	0	0
		( 0)			( 0)			(1579)			(1579)
02:00-02:15	0		08:00-08:15	0		14:00-14:15	0		20:00-20:15	0	
02:15-02:30	0		08:15-08:30	0		14:15-14:30	0		20:15-20:30	0	
02:30-02:45	0		08:30-08:45	0		14:30-14:45	0		20:30-20:45	0	
02:45-03:00	0	0	08:45-09:00	0	0	14:45-15:00	0	0	20:45-21:00	0	0
		( 0)			( 0)			(1579)			(1579)
03:00-03:15	0		09:00-09:15	0		15:00-15:15	0		21:00-21:15	0	
03:15-03:30	0		09:15-09:30	0		15:15-15:30	0		21:15-21:30	0	
03:30-03:45	0		09:30-09:45	0		15:30-15:45	0		21:30-21:45	0	
03:45-04:00	0	0	09:45-10:00	0	0	15:45-16:00	0	0	21:45-22:00	0	0
		( 0)			( 0)			(1579)			(1579)
04:00-04:15	0		10:00-10:15	0		16:00-16:15	0		22:00-22:15	0	
04:15-04:30	0		10:15-10:30	0		16:15-16:30	0		22:15-22:30	0	
04:30-04:45	0		10:30-10:45	0		16:30-16:45	0		22:30-22:45	0	
04:45-05:00	0	0	10:45-11:00	0	0	16:45-17:00	0	0	22:45-23:00	0	0
		( 0)			( 0)			(1579)			(1579)
05:00-05:15	0		11:00-11:15	0		17:00-17:15	0		23:00-23:15	0	
05:15-05:30	0		11:15-11:30	288		17:15-17:30	0		23:15-23:30	0	
05:30-05:45	0		11:30-11:45	352		17:30-17:45	0		23:30-23:45	0	
05:45-06:00	0	0	11:45-12:00	379	1019	17:45-18:00	0	0	23:45-24:00	0	0
		( 0)			(1019)			(1579)			(1579)

AM PEAK HIGHEST HOUR VOLUME: 1019  
 AM PEAK HOUR STARTING TIME: 11:00

PM PEAK HIGHEST HOUR VOLUME: 560  
 PM PEAK HOUR STARTING TIME: 12:00

DAILY TOTAL: 1579

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90  
 WEATHER: CLEAR  
 LOCATION: SANTA MARIA JUST SOUTH OF MINES RD  
 TUBE NUMBER: This is 1 of 2 TUBES

SITE NO:  
 DIRECTION OF FLOW: SOUTHBOUND  
 DAY # 1  
 DATA FILE: DM3.001

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	77		06:00-06:15	78		*12:00-12:15	501		*18:00-18:15	522	
00:15-00:30	22		06:15-06:30	94		*12:15-12:30	430		*18:15-18:30	493	
00:30-00:45	27		06:30-06:45	116		*12:30-12:45	401		*18:30-18:45	454	
00:45-01:00	31	157 ( 157)	06:45-07:00	147	435 (1180)	*12:45-13:00	437	1769 (10114)	*18:45-19:00	416	1885 (20726)
01:00-01:15	53		07:00-07:15	179		*13:00-13:15	450		*19:00-19:15	278	
01:15-01:30	29		07:15-07:30	294		*13:15-13:30	421		*19:15-19:30	286	
01:30-01:45	32		07:30-07:45	405		*13:30-13:45	336		*19:30-19:45	237	
01:45-02:00	19	133 ( 290)	07:45-08:00	415	1293 (2473)	*13:45-14:00	343	1550 (11664)	*19:45-20:00	208	1009 (21735)
02:00-02:15	31		08:00-08:15	373		*14:00-14:15	413		*20:00-20:15	183	
02:15-02:30	17		08:15-08:30	414		*14:15-14:30	386		*20:15-20:30	167	
02:30-02:45	29		08:30-08:45	322		*14:30-14:45	394		*20:30-20:45	230	
02:45-03:00	27	104 ( 394)	08:45-09:00	340	1449 (3922)	*14:45-15:00	346	1539 (13203)	*20:45-21:00	151	731 (22466)
03:00-03:15	18		09:00-09:15	426		*15:00-15:15	432		*21:00-21:15	143	
03:15-03:30	28		09:15-09:30	386		*15:15-15:30	404		*21:15-21:30	153	
03:30-03:45	34		09:30-09:45	350		*15:30-15:45	406		*21:30-21:45	95	
03:45-04:00	31	111 ( 505)	09:45-10:00	365	1527 (5449)	*15:45-16:00	470	1712 (14915)	*21:45-22:00	129	520 (22986)
04:00-04:15	23		10:00-10:15	335		*16:00-16:15	406		*22:00-22:15	87	
04:15-04:30	19		10:15-10:30	318		*16:15-16:30	463		*22:15-22:30	93	
04:30-04:45	23		10:30-10:45	355		*16:30-16:45	505		*22:30-22:45	94	
04:45-05:00	30	95 ( 600)	*10:45-11:00	235	1243 (6692)	*16:45-17:00	407	1781 (16696)	*22:45-23:00	92	366 (23352)
05:00-05:15	26		*11:00-11:15	355		*17:00-17:15	497		*23:00-23:15	58	
05:15-05:30	28		*11:15-11:30	444		*17:15-17:30	571		*23:15-23:30	58	
05:30-05:45	51		*11:30-11:45	381		*17:30-17:45	523		*23:30-23:45	72	
05:45-06:00	40	145 ( 745)	*11:45-12:00	473	1653 (8345)	*17:45-18:00	554	2145 (18841)	*23:45-24:00	49	237 (23589)

AM PEAK HIGHEST HOUR VOLUME: 1653  
 AM PEAK HOUR STARTING TIME: 11:00

PM PEAK HIGHEST HOUR VOLUME: 2170  
 PM PEAK HOUR STARTING TIME: 17:15

DAILY TOTAL: 23589

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90  
 WEATHER: CLEAR  
 LOCATION: SANTA MARIA JUST SOUTH OF MINES RD  
 TUBE NUMBER: This is 2 of 2 TUBES

SITE NO:  
 DIRECTION OF FLOW: NORTHBOUND  
 DAY # 2  
 DATA FILE: DM3.001

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	0		06:00-06:15	0		12:00-12:15	444		18:00-18:15	0	
00:15-00:30	0		06:15-06:30	0		12:15-12:30	370		18:15-18:30	0	
00:30-00:45	0		06:30-06:45	0		12:30-12:45	18		18:30-18:45	0	
00:45-01:00	0	0	06:45-07:00	0	0	12:45-13:00	0	832	18:45-19:00	0	0
		( 0)			( 0)			(2563)			(2563)
01:00-01:15	0		07:00-07:15	0		13:00-13:15	0		19:00-19:15	0	
01:15-01:30	0		07:15-07:30	0		13:15-13:30	0		19:15-19:30	0	
01:30-01:45	0		07:30-07:45	0		13:30-13:45	0		19:30-19:45	0	
01:45-02:00	0	0	07:45-08:00	0	0	13:45-14:00	0	0	19:45-20:00	0	0
		( 0)			( 0)			(2563)			(2563)
02:00-02:15	0		08:00-08:15	0		14:00-14:15	0		20:00-20:15	0	
02:15-02:30	0		08:15-08:30	0		14:15-14:30	0		20:15-20:30	0	
02:30-02:45	0		08:30-08:45	0		14:30-14:45	0		20:30-20:45	0	
02:45-03:00	0	0	08:45-09:00	0	0	14:45-15:00	0	0	20:45-21:00	0	0
		( 0)			( 0)			(2563)			(2563)
03:00-03:15	0		09:00-09:15	0		15:00-15:15	0		21:00-21:15	0	
03:15-03:30	0		09:15-09:30	0		15:15-15:30	0		21:15-21:30	0	
03:30-03:45	0		09:30-09:45	0		15:30-15:45	0		21:30-21:45	0	
03:45-04:00	0	0	09:45-10:00	0	0	15:45-16:00	0	0	21:45-22:00	0	0
		( 0)			( 0)			(2563)			(2563)
04:00-04:15	0		10:00-10:15	0		16:00-16:15	0		22:00-22:15	0	
04:15-04:30	0		10:15-10:30	0		16:15-16:30	0		22:15-22:30	0	
04:30-04:45	0		10:30-10:45	0		16:30-16:45	0		22:30-22:45	0	
04:45-05:00	0	0	10:45-11:00	393	393	16:45-17:00	0	0	22:45-23:00	0	0
		( 0)			( 393)			(2563)			(2563)
05:00-05:15	0		11:00-11:15	313		17:00-17:15	0		23:00-23:15	0	
05:15-05:30	0		11:15-11:30	342		17:15-17:30	0		23:15-23:30	0	
05:30-05:45	0		11:30-11:45	357		17:30-17:45	0		23:30-23:45	0	
05:45-06:00	0	0	11:45-12:00	326	1338	17:45-18:00	0	0	23:45-24:00	0	0
		( 0)			(1731)			(2563)			(2563)

AM PEAK HIGHEST HOUR VOLUME: 1405  
 AM PEAK HOUR STARTING TIME: 10:45

PM PEAK HIGHEST HOUR VOLUME: 832  
 PM PEAK HOUR STARTING TIME: 12:00

DAILY TOTAL: 2563

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90  
 WEATHER: CLEAR  
 LOCATION: SANTA MARIA SOUTH OF DEL MAR  
 TUBE NUMBER: This is 2 of 2 TUBES

SITE NO:  
 DIRECTION OF FLOW: NORTHBOUND  
 DAY # 1  
 DATA FILE: DM4.002

HOURLY		HOURLY		HOURLY		HOURLY	
TIME	VOLUME	TIME	VOLUME	TIME	VOLUME	TIME	VOLUME
00:00-00:15	15	06:00-06:15	28	*12:00-12:15	292	*18:00-18:15	256
00:15-00:30	9	06:15-06:30	36	*12:15-12:30	218	*18:15-18:30	183
00:30-00:45	10	06:30-06:45	46	*12:30-12:45	206	*18:30-18:45	170
00:45-01:00	2	06:45-07:00	67	*12:45-13:00	174	*18:45-19:00	114
	( 36)		( 400)		(4321)		(9251)
01:00-01:15	22	07:00-07:15	37	*13:00-13:15	201	*19:00-19:15	96
01:15-01:30	4	07:15-07:30	66	*13:15-13:30	247	*19:15-19:30	78
01:30-01:45	2	07:30-07:45	75	*13:30-13:45	121	*19:30-19:45	80
01:45-02:00	23	07:45-08:00	112	*13:45-14:00	131	*19:45-20:00	51
	( 87)		( 690)		(5021)		(9556)
02:00-02:15	23	08:00-08:15	140	*14:00-14:15	190	*20:00-20:15	47
02:15-02:30	21	08:15-08:30	144	*14:15-14:30	212	*20:15-20:30	40
02:30-02:45	7	08:30-08:45	173	*14:30-14:45	193	*20:30-20:45	69
02:45-03:00	0	08:45-09:00	128	*14:45-15:00	175	*20:45-21:00	54
	( 138)		(1275)		(5791)		(9766)
03:00-03:15	7	09:00-09:15	173	*15:00-15:15	137	*21:00-21:15	50
03:15-03:30	10	09:15-09:30	147	*15:15-15:30	228	*21:15-21:30	35
03:30-03:45	2	09:30-09:45	174	*15:30-15:45	279	*21:30-21:45	34
03:45-04:00	5	09:45-10:00	199	*15:45-16:00	204	*21:45-22:00	42
	( 162)		(1968)		(6639)		(9927)
04:00-04:15	7	10:00-10:15	218	*16:00-16:15	219	*22:00-22:15	31
04:15-04:30	2	10:15-10:30	156	*16:15-16:30	198	*22:15-22:30	27
04:30-04:45	7	*10:30-10:45	154	*16:30-16:45	326	*22:30-22:45	58
04:45-05:00	14	*10:45-11:00	166	*16:45-17:00	202	*22:45-23:00	13
	( 192)		(2662)		(7584)		(10056)
05:00-05:15	5	*11:00-11:15	147	*17:00-17:15	243	*23:00-23:15	26
05:15-05:30	3	*11:15-11:30	228	*17:15-17:30	254	*23:15-23:30	25
05:30-05:45	15	*11:30-11:45	180	*17:30-17:45	242	*23:30-23:45	38
05:45-06:00	8	*11:45-12:00	214	*17:45-18:00	205	*23:45-24:00	26
	( 223)		(3431)		(8528)		(10171)

AM PEAK HIGHEST HOUR VOLUME: 769  
 AM PEAK HOUR STARTING TIME: 11:00

PM PEAK HIGHEST HOUR VOLUME: 1025  
 PM PEAK HOUR STARTING TIME: 16:30

DAILY TOTAL: 10171



TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90  
 WEATHER: CLEAR  
 LOCATION: SANTA MARIA JUST SOUTH OF MINES RD  
 TUBE NUMBER: This is 1 of 2 TUBES

SITE NO:  
 DIRECTION OF FLOW: SOUTHBOUND  
 DAY # 2  
 DATA FILE: DM3.001

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	0		06:00-06:15	0		12:00-12:15	571		18:00-18:15	0	
00:15-00:30	0		06:15-06:30	0		12:15-12:30	299		18:15-18:30	0	
00:30-00:45	0		06:30-06:45	0		12:30-12:45	17		18:30-18:45	0	
00:45-01:00	0	( 0)	06:45-07:00	0	( 0)	12:45-13:00	0	887	18:45-19:00	0	0
								(2742)			(2742)
01:00-01:15	0		07:00-07:15	0		13:00-13:15	0		19:00-19:15	0	
01:15-01:30	0		07:15-07:30	0		13:15-13:30	0		19:15-19:30	0	
01:30-01:45	0		07:30-07:45	0		13:30-13:45	0		19:30-19:45	0	
01:45-02:00	0	( 0)	07:45-08:00	0	( 0)	13:45-14:00	0	0	19:45-20:00	0	0
								(2742)			(2742)
02:00-02:15	0		08:00-08:15	0		14:00-14:15	0		20:00-20:15	0	
02:15-02:30	0		08:15-08:30	0		14:15-14:30	0		20:15-20:30	0	
02:30-02:45	0		08:30-08:45	0		14:30-14:45	0		20:30-20:45	0	
02:45-03:00	0	( 0)	08:45-09:00	0	( 0)	14:45-15:00	0	0	20:45-21:00	0	0
								(2742)			(2742)
03:00-03:15	0		09:00-09:15	0		15:00-15:15	0		21:00-21:15	0	
03:15-03:30	0		09:15-09:30	0		15:15-15:30	0		21:15-21:30	0	
03:30-03:45	0		09:30-09:45	0		15:30-15:45	0		21:30-21:45	0	
03:45-04:00	0	( 0)	09:45-10:00	0	( 0)	15:45-16:00	0	0	21:45-22:00	0	0
								(2742)			(2742)
04:00-04:15	0		10:00-10:15	0		16:00-16:15	0		22:00-22:15	0	
04:15-04:30	0		10:15-10:30	0		16:15-16:30	0		22:15-22:30	0	
04:30-04:45	0		10:30-10:45	0		16:30-16:45	0		22:30-22:45	0	
04:45-05:00	0	( 0)	10:45-11:00	358	358	16:45-17:00	0	0	22:45-23:00	0	0
					( 358)			(2742)			(2742)
05:00-05:15	0		11:00-11:15	342		17:00-17:15	0		23:00-23:15	0	
05:15-05:30	0		11:15-11:30	332		17:15-17:30	0		23:15-23:30	0	
05:30-05:45	0		11:30-11:45	361		17:30-17:45	0		23:30-23:45	0	
05:45-06:00	0	( 0)	11:45-12:00	462	1497	17:45-18:00	0	0	23:45-24:00	0	0
					(1855)			(2742)			(2742)

AM PEAK HIGHEST HOUR VOLUME: 1497  
 AM PEAK HOUR STARTING TIME: 11:00

PM PEAK HIGHEST HOUR VOLUME: 887  
 PM PEAK HOUR STARTING TIME: 12:00

DAILY TOTAL: 2742

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90  
 WEATHER: CLEAR  
 LOCATION: SANTA MARIA SOUTH OF DEL MAR  
 TUBE NUMBER: This is 1 of 2 TUBES

SITE NO:  
 DIRECTION OF FLOW: SOUTHBOUND  
 DAY # 1  
 DATA FILE: DM4.002

TIME	HOURLY VOLUME	TIME	HOURLY VOLUME	TIME	HOURLY VOLUME	TIME	HOURLY VOLUME
00:00-00:15	38	06:00-06:15	48	*12:00-12:15	199	*18:00-18:15	196
00:15-00:30	22	06:15-06:30	52	*12:15-12:30	206	*18:15-18:30	158
00:30-00:45	10	06:30-06:45	125	*12:30-12:45	160	*18:30-18:45	155
00:45-01:00	37	06:45-07:00	153	*12:45-13:00	205	*18:45-19:00	115
	( 107)		( 822)		(5173)		(9848)
01:00-01:15	22	07:00-07:15	87	*13:00-13:15	142	*19:00-19:15	133
01:15-01:30	21	07:15-07:30	81	*13:15-13:30	232	*19:15-19:30	122
01:30-01:45	29	07:30-07:45	208	*13:30-13:45	249	*19:30-19:45	73
01:45-02:00	24	07:45-08:00	328	*13:45-14:00	200	*19:45-20:00	77
	( 203)		(1526)		(5996)		(10253)
02:00-02:15	35	08:00-08:15	181	*14:00-14:15	178	*20:00-20:15	67
02:15-02:30	20	08:15-08:30	120	*14:15-14:30	223	*20:15-20:30	60
02:30-02:45	13	08:30-08:45	174	*14:30-14:45	207	*20:30-20:45	91
02:45-03:00	16	08:45-09:00	191	*14:45-15:00	212	*20:45-21:00	60
	( 287)		(2192)		(6816)		(10531)
03:00-03:15	4	09:00-09:15	179	*15:00-15:15	242	*21:00-21:15	67
03:15-03:30	8	09:15-09:30	200	*15:15-15:30	191	*21:15-21:30	36
03:30-03:45	2	09:30-09:45	210	*15:30-15:45	164	*21:30-21:45	55
03:45-04:00	10	09:45-10:00	126	*15:45-16:00	211	*21:45-22:00	68
	( 311)		(2907)		(7624)		(10757)
04:00-04:15	6	10:00-10:15	161	*16:00-16:15	202	*22:00-22:15	61
04:15-04:30	6	10:15-10:30	188	*16:15-16:30	255	*22:15-22:30	54
04:30-04:45	12	*10:30-10:45	158	*16:30-16:45	216	*22:30-22:45	54
04:45-05:00	19	*10:45-11:00	220	*16:45-17:00	172	*22:45-23:00	47
	( 354)		(3634)		(8469)		(10973)
05:00-05:15	13	*11:00-11:15	165	*17:00-17:15	186	*23:00-23:15	49
05:15-05:30	15	*11:15-11:30	176	*17:15-17:30	200	*23:15-23:30	53
05:30-05:45	22	*11:30-11:45	199	*17:30-17:45	166	*23:30-23:45	40
05:45-06:00	40	*11:45-12:00	229	*17:45-18:00	203	*23:45-24:00	48
	( 444)		(4403)		(9224)		(11163)

AM PEAK HIGHEST HOUR VOLUME: 837  
 AM PEAK HOUR STARTING TIME: 07:30

PM PEAK HIGHEST HOUR VOLUME: 884  
 PM PEAK HOUR STARTING TIME: 14:15

DAILY TOTAL: 11163

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90  
 WEATHER: CLEAR  
 LOCATION: SANTA MARIA SOUTH OF DEL MAR  
 TUBE NUMBER: This is 2 of 2 TUBES

SITE NO:  
 DIRECTION OF FLOW: NORTHBOUND  
 DAY # 2  
 DATA FILE: DM4.002

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	0		06:00-06:15	0		12:00-12:15	283		18:00-18:15	0	
00:15-00:30	0		06:15-06:30	0		12:15-12:30	145		18:15-18:30	0	
00:30-00:45	0		06:30-06:45	0		12:30-12:45	27		18:30-18:45	0	
00:45-01:00	0	0	06:45-07:00	0	0	12:45-13:00	0	455	18:45-19:00	0	0
		( 0)			( 0)			( 990)			( 990)
01:00-01:15	0		07:00-07:15	0		13:00-13:15	0		19:00-19:15	0	
01:15-01:30	0		07:15-07:30	0		13:15-13:30	0		19:15-19:30	0	
01:30-01:45	0		07:30-07:45	0		13:30-13:45	0		19:30-19:45	0	
01:45-02:00	0	0	07:45-08:00	0	0	13:45-14:00	0	0	19:45-20:00	0	0
		( 0)			( 0)			( 990)			( 990)
02:00-02:15	0		08:00-08:15	0		14:00-14:15	0		20:00-20:15	0	
02:15-02:30	0		08:15-08:30	0		14:15-14:30	0		20:15-20:30	0	
02:30-02:45	0		08:30-08:45	0		14:30-14:45	0		20:30-20:45	0	
02:45-03:00	0	0	08:45-09:00	0	0	14:45-15:00	0	0	20:45-21:00	0	0
		( 0)			( 0)			( 990)			( 990)
03:00-03:15	0		09:00-09:15	0		15:00-15:15	0		21:00-21:15	0	
03:15-03:30	0		09:15-09:30	0		15:15-15:30	0		21:15-21:30	0	
03:30-03:45	0		09:30-09:45	0		15:30-15:45	0		21:30-21:45	0	
03:45-04:00	0	0	09:45-10:00	0	0	15:45-16:00	0	0	21:45-22:00	0	0
		( 0)			( 0)			( 990)			( 990)
04:00-04:15	0		10:00-10:15	0		16:00-16:15	0		22:00-22:15	0	
04:15-04:30	0		10:15-10:30	0		16:15-16:30	0		22:15-22:30	0	
04:30-04:45	0		10:30-10:45	231		16:30-16:45	0		22:30-22:45	0	
04:45-05:00	0	0	10:45-11:00	164	395	16:45-17:00	0	0	22:45-23:00	0	0
		( 0)			( 395)			( 990)			( 990)
05:00-05:15	0		11:00-11:15	128		17:00-17:15	0		23:00-23:15	0	
05:15-05:30	0		11:15-11:30	0		17:15-17:30	0		23:15-23:30	0	
05:30-05:45	0		11:30-11:45	4		17:30-17:45	0		23:30-23:45	0	
05:45-06:00	0	0	11:45-12:00	8	140	17:45-18:00	0	0	23:45-24:00	0	0
		( 0)			( 535)			( 990)			( 990)

AM PEAK HIGHEST HOUR VOLUME: 523  
 AM PEAK HOUR STARTING TIME: 10:15

PM PEAK HIGHEST HOUR VOLUME: 455  
 PM PEAK HOUR STARTING TIME: 12:00

DAILY TOTAL: 990

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90

WEATHER: CLEAR

LOCATION: 135 SB EXIT RAMP (1) MAINLANES (2) N OF DEL MAR

TUBE NUMBER: This is 1 of 2 TUBES

SITE NO:

DIRECTION OF FLOW: SB EXIT TO DEL MAR

DAY # 1

DATA FILE: DM5.003

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	25		06:00-06:15	27		12:00-12:15	41		*18:00-18:15	32	
00:15-00:30	9		06:15-06:30	32		12:15-12:30	82		*18:15-18:30	33	
00:30-00:45	21		06:30-06:45	48		12:30-12:45	60		*18:30-18:45	47	
00:45-01:00	31	86	06:45-07:00	16	123	12:45-13:00	56	239	*18:45-19:00	59	171
		( 86)			( 502)			(1559)			(2587)
01:00-01:15	4		07:00-07:15	19		13:00-13:15	36		*19:00-19:15	39	
01:15-01:30	7		07:15-07:30	49		13:15-13:30	42		*19:15-19:30	42	
01:30-01:45	15		07:30-07:45	25		13:30-13:45	32		*19:30-19:45	40	
01:45-02:00	4	30	07:45-08:00	52	145	13:45-14:00	25	135	*19:45-20:00	14	135
		( 116)			( 647)			(1694)			(2722)
02:00-02:15	27		08:00-08:15	49		14:00-14:15	58		*20:00-20:15	18	
02:15-02:30	19		08:15-08:30	46		*14:15-14:30	15		*20:15-20:30	25	
02:30-02:45	18		08:30-08:45	54		*14:30-14:45	28		*20:30-20:45	14	
02:45-03:00	2	66	08:45-09:00	41	190	*14:45-15:00	45	146	*20:45-21:00	13	70
		( 182)			( 837)			(1840)			(2792)
03:00-03:15	18		09:00-09:15	23		*15:00-15:15	37		*21:00-21:15	37	
03:15-03:30	40		09:15-09:30	36		*15:15-15:30	36		*21:15-21:30	16	
03:30-03:45	12		09:30-09:45	29		*15:30-15:45	50		*21:30-21:45	20	
03:45-04:00	0	70	09:45-10:00	48	136	*15:45-16:00	20	143	*21:45-22:00	13	86
		( 252)			( 973)			(1983)			(2878)
04:00-04:15	2		10:00-10:15	29		*16:00-16:15	45		*22:00-22:15	23	
04:15-04:30	15		10:15-10:30	40		*16:15-16:30	37		*22:15-22:30	16	
04:30-04:45	7		10:30-10:45	47		*16:30-16:45	42		*22:30-22:45	37	
04:45-05:00	28	52	10:45-11:00	59	175	*16:45-17:00	52	176	*22:45-23:00	15	91
		( 304)			(1148)			(2159)			(2969)
05:00-05:15	25		11:00-11:15	41		*17:00-17:15	75		*23:00-23:15	32	
05:15-05:30	15		11:15-11:30	33		*17:15-17:30	63		*23:15-23:30	11	
05:30-05:45	16		11:30-11:45	51		*17:30-17:45	74		*23:30-23:45	24	
05:45-06:00	19	75	11:45-12:00	47	172	*17:45-18:00	45	257	*23:45-24:00	34	101
		( 379)			(1320)			(2416)			(3070)

AM PEAK HIGHEST HOUR VOLUME: 201

AM PEAK HOUR STARTING TIME: 07:45

PM PEAK HIGHEST HOUR VOLUME: 264

PM PEAK HOUR STARTING TIME: 16:45

DAILY TOTAL: 3070

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90  
 WEATHER: CLEAR  
 LOCATION: SANTA MARIA SOUTH OF DEL MAR  
 TUBE NUMBER: This is 1 of 2 TUBES

SITE NO:  
 DIRECTION OF FLOW: SOUTHBOUND  
 DAY # 2  
 DATA FILE: DM4.002

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	0		06:00-06:15	0		12:00-12:15	230		18:00-18:15	0	
00:15-00:30	0		06:15-06:30	0		12:15-12:30	171		18:15-18:30	0	
00:30-00:45	0		06:30-06:45	0		12:30-12:45	74		18:30-18:45	0	
00:45-01:00	0	0	06:45-07:00	0	0	12:45-13:00	0	475	18:45-19:00	0	0
		( 0)			( 0)			(1053)			(1053)
01:00-01:15	0		07:00-07:15	0		13:00-13:15	0		19:00-19:15	0	
01:15-01:30	0		07:15-07:30	0		13:15-13:30	0		19:15-19:30	0	
01:30-01:45	0		07:30-07:45	0		13:30-13:45	0		19:30-19:45	0	
01:45-02:00	0	0	07:45-08:00	0	0	13:45-14:00	0	0	19:45-20:00	0	0
		( 0)			( 0)			(1053)			(1053)
02:00-02:15	0		08:00-08:15	0		14:00-14:15	0		20:00-20:15	0	
02:15-02:30	0		08:15-08:30	0		14:15-14:30	0		20:15-20:30	0	
02:30-02:45	0		08:30-08:45	0		14:30-14:45	0		20:30-20:45	0	
02:45-03:00	0	0	08:45-09:00	0	0	14:45-15:00	0	0	20:45-21:00	0	0
		( 0)			( 0)			(1053)			(1053)
03:00-03:15	0		09:00-09:15	0		15:00-15:15	0		21:00-21:15	0	
03:15-03:30	0		09:15-09:30	0		15:15-15:30	0		21:15-21:30	0	
03:30-03:45	0		09:30-09:45	0		15:30-15:45	0		21:30-21:45	0	
03:45-04:00	0	0	09:45-10:00	0	0	15:45-16:00	0	0	21:45-22:00	0	0
		( 0)			( 0)			(1053)			(1053)
04:00-04:15	0		10:00-10:15	0		16:00-16:15	0		22:00-22:15	0	
04:15-04:30	0		10:15-10:30	0		16:15-16:30	0		22:15-22:30	0	
04:30-04:45	0		10:30-10:45	204		16:30-16:45	0		22:30-22:45	0	
04:45-05:00	0	0	10:45-11:00	180	384	16:45-17:00	0	0	22:45-23:00	0	0
		( 0)			( 384)			(1053)			(1053)
05:00-05:15	0		11:00-11:15	133		17:00-17:15	0		23:00-23:15	0	
05:15-05:30	0		11:15-11:30	8		17:15-17:30	0		23:15-23:30	0	
05:30-05:45	0		11:30-11:45	13		17:30-17:45	0		23:30-23:45	0	
05:45-06:00	0	0	11:45-12:00	40	194	17:45-18:00	0	0	23:45-24:00	0	0
		( 0)			( 578)			(1053)			(1053)

AM PEAK HIGHEST HOUR VOLUME: 525  
 AM PEAK HOUR STARTING TIME: 10:30

PM PEAK HIGHEST HOUR VOLUME: 475  
 PM PEAK HOUR STARTING TIME: 12:00

DAILY TOTAL: 1053

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90  
 WEATHER: CLEAR  
 LOCATION: 135 SB EXIT RAMP (1) MAINLANES (2) N OF DEL MAR  
 TUBE NUMBER: This is 2 of 2 TUBES

SITE NO:  
 DIRECTION OF FLOW: SOUTHBOUND 135 ML NO OF DELMAR  
 DAY # 1  
 DATA FILE: DMS.003

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	66		06:00-06:15	53		12:00-12:15	256		*18:00-18:15	230	
00:15-00:30	55		06:15-06:30	51		12:15-12:30	179		*18:15-18:30	198	
00:30-00:45	35		06:30-06:45	58		12:30-12:45	190		*18:30-18:45	154	
00:45-01:00	39	195 ( 195)	06:45-07:00	86	248 ( 927)	12:45-13:00	160	785 (4548)	*18:45-19:00	157	739 (8755)
01:00-01:15	16		07:00-07:15	79		13:00-13:15	164		*19:00-19:15	113	
01:15-01:30	25		07:15-07:30	71		13:15-13:30	140		*19:15-19:30	108	
01:30-01:45	18		07:30-07:45	102		13:30-13:45	186		*19:30-19:45	90	
01:45-02:00	29	88 ( 283)	07:45-08:00	137	389 (1316)	13:45-14:00	116	606 (5154)	*19:45-20:00	120	431 (9186)
02:00-02:15	14		08:00-08:15	87		14:00-14:15	127		*20:00-20:15	87	
02:15-02:30	19		08:15-08:30	104		*14:15-14:30	154		*20:15-20:30	76	
02:30-02:45	48		08:30-08:45	151		*14:30-14:45	144		*20:30-20:45	46	
02:45-03:00	18	99 ( 382)	08:45-09:00	112	454 (1770)	*14:45-15:00	142	567 (5721)	*20:45-21:00	54	263 (9449)
03:00-03:15	16		09:00-09:15	149		*15:00-15:15	150		*21:00-21:15	54	
03:15-03:30	26		09:15-09:30	159		*15:15-15:30	165		*21:15-21:30	72	
03:30-03:45	14		09:30-09:45	129		*15:30-15:45	192		*21:30-21:45	46	
03:45-04:00	22	78 ( 460)	09:45-10:00	142	579 (2349)	*15:45-16:00	170	677 (6398)	*21:45-22:00	60	232 (9681)
04:00-04:15	41		10:00-10:15	155		*16:00-16:15	175		*22:00-22:15	32	
04:15-04:30	21		10:15-10:30	206		*16:15-16:30	177		*22:15-22:30	59	
04:30-04:45	25		10:30-10:45	179		*16:30-16:45	162		*22:30-22:45	63	
04:45-05:00	18	105 ( 565)	10:45-11:00	155	695 (3044)	*16:45-17:00	166	680 (7078)	*22:45-23:00	42	196 (9877)
05:00-05:15	19		11:00-11:15	166		*17:00-17:15	215		*23:00-23:15	53	
05:15-05:30	32		11:15-11:30	144		*17:15-17:30	277		*23:15-23:30	34	
05:30-05:45	21		11:30-11:45	187		*17:30-17:45	171		*23:30-23:45	33	
05:45-06:00	42	114 ( 679)	11:45-12:00	222	719 (3763)	*17:45-18:00	275	938 (8016)	*23:45-24:00	31	151 (10028)

AM PEAK HIGHEST HOUR VOLUME: 719  
 AM PEAK HOUR STARTING TIME: 11:00

PM PEAK HIGHEST HOUR VOLUME: 953  
 PM PEAK HOUR STARTING TIME: 17:15

DAILY TOTAL: 10028

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90  
 WEATHER: CLEAR  
 LOCATION: 135 SB EXIT RAMP (1) MAINLANES (2) N OF DEL MAR  
 TUBE NUMBER: This is 1 of 2 TUBES

SITE NO:  
 DIRECTION OF FLOW: SB EXIT TO DEL MAR  
 DAY # 2  
 DATA FILE: DMS.003

TIME	HOURLY VOLUME	TIME	HOURLY VOLUME	TIME	HOURLY VOLUME	TIME	HOURLY VOLUME
00:00-00:15	0	06:00-06:15	0	12:00-12:15	0	18:00-18:15	0
00:15-00:30	0	06:15-06:30	0	12:15-12:30	0	18:15-18:30	0
00:30-00:45	0	06:30-06:45	0	12:30-12:45	0	18:30-18:45	0
00:45-01:00	0	06:45-07:00	0	12:45-13:00	0	18:45-19:00	0
	( 0 )		( 0 )		( 0 )		( 275 )
01:00-01:15	0	07:00-07:15	0	13:00-13:15	0	19:00-19:15	0
01:15-01:30	0	07:15-07:30	0	13:15-13:30	0	19:15-19:30	0
01:30-01:45	0	07:30-07:45	0	13:30-13:45	0	19:30-19:45	0
01:45-02:00	0	07:45-08:00	0	13:45-14:00	0	19:45-20:00	0
	( 0 )		( 0 )		( 0 )		( 275 )
02:00-02:15	0	08:00-08:15	0	14:00-14:15	0	20:00-20:15	0
02:15-02:30	0	08:15-08:30	0	14:15-14:30	51	20:15-20:30	0
02:30-02:45	0	08:30-08:45	0	14:30-14:45	42	20:30-20:45	0
02:45-03:00	0	08:45-09:00	0	14:45-15:00	30	20:45-21:00	0
	( 0 )		( 0 )		( 123 )		( 275 )
03:00-03:15	0	09:00-09:15	0	15:00-15:15	50	21:00-21:15	0
03:15-03:30	0	09:15-09:30	0	15:15-15:30	43	21:15-21:30	0
03:30-03:45	0	09:30-09:45	0	15:30-15:45	57	21:30-21:45	0
03:45-04:00	0	09:45-10:00	0	15:45-16:00	2	21:45-22:00	0
	( 0 )		( 0 )		( 275 )		( 275 )
04:00-04:15	0	10:00-10:15	0	16:00-16:15	0	22:00-22:15	0
04:15-04:30	0	10:15-10:30	0	16:15-16:30	0	22:15-22:30	0
04:30-04:45	0	10:30-10:45	0	16:30-16:45	0	22:30-22:45	0
04:45-05:00	0	10:45-11:00	0	16:45-17:00	0	22:45-23:00	0
	( 0 )		( 0 )		( 275 )		( 275 )
05:00-05:15	0	11:00-11:15	0	17:00-17:15	0	23:00-23:15	0
05:15-05:30	0	11:15-11:30	0	17:15-17:30	0	23:15-23:30	0
05:30-05:45	0	11:30-11:45	0	17:30-17:45	0	23:30-23:45	0
05:45-06:00	0	11:45-12:00	0	17:45-18:00	0	23:45-24:00	0
	( 0 )		( 0 )		( 275 )		( 275 )

AM PEAK HIGHEST HOUR VOLUME: 0  
 AM PEAK HOUR STARTING TIME:

PM PEAK HIGHEST HOUR VOLUME: 180  
 PM PEAK HOUR STARTING TIME: 14:45

DAILY TOTAL: 275

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90

WEATHER:

LOCATION: SB FR (1) AND SB ENTR TO I35 (2) SOUTH OF DEL MAR

TUBE NUMBER: This is 1 of 2 TUBES

SITE NO:

DIRECTION OF FLOW: SB FR SOUTH OF DEL MAR ENT

DAY # 1

DATA FILE: DM6.001

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	28		06:00-06:15	38		*12:00-12:15	224		*18:00-18:15	152	
00:15-00:30	36		06:15-06:30	46		*12:15-12:30	192		*18:15-18:30	165	
00:30-00:45	26		06:30-06:45	81		*12:30-12:45	171		*18:30-18:45	150	
00:45-01:00	24	114 ( 114)	06:45-07:00	125	290 ( 702)	*12:45-13:00	164	751 (4216)	*18:45-19:00	158	625 (8260)
01:00-01:15	25		07:00-07:15	81		*13:00-13:15	195		*19:00-19:15	109	
01:15-01:30	18		07:15-07:30	90		*13:15-13:30	153		*19:15-19:30	101	
01:30-01:45	31		07:30-07:45	123		*13:30-13:45	148		*19:30-19:45	149	
01:45-02:00	18	92 ( 206)	07:45-08:00	150	444 (1146)	*13:45-14:00	169	665 (4881)	*19:45-20:00	122	481 (8741)
02:00-02:15	19		08:00-08:15	193		*14:00-14:15	141		*20:00-20:15	143	
02:15-02:30	16		08:15-08:30	166		*14:15-14:30	155		*20:15-20:30	125	
02:30-02:45	14		08:30-08:45	169		*14:30-14:45	150		*20:30-20:45	105	
02:45-03:00	6	55 ( 261)	08:45-09:00	147	675 (1821)	*14:45-15:00	139	585 (5466)	*20:45-21:00	125	498 (9239)
03:00-03:15	14		09:00-09:15	161		*15:00-15:15	156		*21:00-21:15	121	
03:15-03:30	21		09:15-09:30	143		*15:15-15:30	201		*21:15-21:30	123	
03:30-03:45	4		09:30-09:45	137		*15:30-15:45	151		*21:30-21:45	164	
03:45-04:00	10	49 ( 310)	09:45-10:00	133	574 (2395)	*15:45-16:00	180	688 (6154)	*21:45-22:00	106	514 (9753)
04:00-04:15	10		*10:00-10:15	37		*16:00-16:15	197		*22:00-22:15	100	
04:15-04:30	9		*10:15-10:30	120		*16:15-16:30	163		*22:15-22:30	110	
04:30-04:45	17		*10:30-10:45	153		*16:30-16:45	191		*22:30-22:45	89	
04:45-05:00	20	56 ( 366)	*10:45-11:00	124	434 (2829)	*16:45-17:00	182	733 (6887)	*22:45-23:00	76	375 (10128)
05:00-05:15	4		*11:00-11:15	123		*17:00-17:15	186		*23:00-23:15	78	
05:15-05:30	6		*11:15-11:30	146		*17:15-17:30	182		*23:15-23:30	73	
05:30-05:45	8		*11:30-11:45	188		*17:30-17:45	214		*23:30-23:45	54	
05:45-06:00	28	46 ( 412)	*11:45-12:00	179	636 (3465)	*17:45-18:00	166	748 (7635)	*23:45-24:00	59	264 (10392)

AM PEAK HIGHEST HOUR VOLUME: 678

AM PEAK HOUR STARTING TIME: 07:45

PM PEAK HIGHEST HOUR VOLUME: 764

PM PEAK HOUR STARTING TIME: 16:45

DAILY TOTAL: 10392



TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90

SITE NO:

WEATHER: CLEAR

DIRECTION OF FLOW: SOUTHBOUND 135 ML NO OF DELMAR

LOCATION: 135 SB EXIT RAMP (1) MAINLANES (2) N OF DEL MAR

DAY # 2

TUBE NUMBER: This is 2 of 2 TUBES

DATA FILE: DMS.003

TIME	HOURLY VOLUME	HOURLY VOLUME	TIME	HOURLY VOLUME	HOURLY VOLUME	TIME	HOURLY VOLUME	HOURLY VOLUME	TIME	HOURLY VOLUME	HOURLY VOLUME
00:00-00:15	0		06:00-06:15	0		12:00-12:15	0		18:00-18:15	0	
00:15-00:30	0		06:15-06:30	0		12:15-12:30	0		18:15-18:30	0	
00:30-00:45	0		06:30-06:45	0		12:30-12:45	0		18:30-18:45	0	
00:45-01:00	0	0	06:45-07:00	0	0	12:45-13:00	0	0	18:45-19:00	0	0
	( 0)			( 0)			( 0)			( 939)	
01:00-01:15	0		07:00-07:15	0		13:00-13:15	0		19:00-19:15	0	
01:15-01:30	0		07:15-07:30	0		13:15-13:30	0		19:15-19:30	0	
01:30-01:45	0		07:30-07:45	0		13:30-13:45	0		19:30-19:45	0	
01:45-02:00	0	0	07:45-08:00	0	0	13:45-14:00	0	0	19:45-20:00	0	0
	( 0)			( 0)			( 0)			( 939)	
02:00-02:15	0		08:00-08:15	0		14:00-14:15	0		20:00-20:15	0	
02:15-02:30	0		08:15-08:30	0		14:15-14:30	179		20:15-20:30	0	
02:30-02:45	0		08:30-08:45	0		14:30-14:45	130		20:30-20:45	0	
02:45-03:00	0	0	08:45-09:00	0	0	14:45-15:00	148	457	20:45-21:00	0	0
	( 0)			( 0)			( 457)			( 939)	
03:00-03:15	0		09:00-09:15	0		15:00-15:15	171		21:00-21:15	0	
03:15-03:30	0		09:15-09:30	0		15:15-15:30	138		21:15-21:30	0	
03:30-03:45	0		09:30-09:45	0		15:30-15:45	169		21:30-21:45	0	
03:45-04:00	0	0	09:45-10:00	0	0	15:45-16:00	4	482	21:45-22:00	0	0
	( 0)			( 0)			( 939)			( 939)	
04:00-04:15	0		10:00-10:15	0		16:00-16:15	0		22:00-22:15	0	
04:15-04:30	0		10:15-10:30	0		16:15-16:30	0		22:15-22:30	0	
04:30-04:45	0		10:30-10:45	0		16:30-16:45	0		22:30-22:45	0	
04:45-05:00	0	0	10:45-11:00	0	0	16:45-17:00	0	0	22:45-23:00	0	0
	( 0)			( 0)			( 939)			( 939)	
05:00-05:15	0		11:00-11:15	0		17:00-17:15	0		23:00-23:15	0	
05:15-05:30	0		11:15-11:30	0		17:15-17:30	0		23:15-23:30	0	
05:30-05:45	0		11:30-11:45	0		17:30-17:45	0		23:30-23:45	0	
05:45-06:00	0	0	11:45-12:00	0	0	17:45-18:00	0	0	23:45-24:00	0	0
	( 0)			( 0)			( 939)			( 939)	

AM PEAK HIGHEST HOUR VOLUME: 0  
 AM PEAK HOUR STARTING TIME:

PM PEAK HIGHEST HOUR VOLUME: 628  
 PM PEAK HOUR STARTING TIME: 14:15

DAILY TOTAL: 939

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90

WEATHER:

LOCATION: SB FR (1) AND SB ENTR TO I35 (2) SOUTH OF DEL MAR

TUBE NUMBER: This is 2 of 2 TUBES

SITE NO:

DIRECTION OF FLOW: SB ENTR TO I35 FROM DEL MAR

DAY # 1

DATA FILE: DM6.001

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	126		06:00-06:15	86		*12:00-12:15	450		*18:00-18:15	502	
00:15-00:30	62		06:15-06:30	117		*12:15-12:30	334		*18:15-18:30	447	
00:30-00:45	37		06:30-06:45	151		*12:30-12:45	379		*18:30-18:45	465	
00:45-01:00	36	261 ( 261)	06:45-07:00	209	563 (1511)	*12:45-13:00	430	1593 (11201)	*18:45-19:00	429	1843 (21036)
01:00-01:15	60		07:00-07:15	259		*13:00-13:15	422		*19:00-19:15	393	
01:15-01:30	34		07:15-07:30	439		*13:15-13:30	366		*19:15-19:30	305	
01:30-01:45	44		07:30-07:45	662		*13:30-13:45	341		*19:30-19:45	283	
01:45-02:00	24	162 ( 423)	07:45-08:00	797	2157 (3668)	*13:45-14:00	328	1457 (12658)	*19:45-20:00	232	1213 (22249)
02:00-02:15	27		08:00-08:15	457		*14:00-14:15	345		*20:00-20:15	305	
02:15-02:30	21		08:15-08:30	496		*14:15-14:30	340		*20:15-20:30	214	
02:30-02:45	21		08:30-08:45	407		*14:30-14:45	269		*20:30-20:45	190	
02:45-03:00	14	83 ( 506)	08:45-09:00	457	1817 (5485)	*14:45-15:00	328	1282 (13940)	*20:45-21:00	186	895 (23144)
03:00-03:15	16		09:00-09:15	369		*15:00-15:15	401		*21:00-21:15	162	
03:15-03:30	30		09:15-09:30	459		*15:15-15:30	377		*21:15-21:30	157	
03:30-03:45	39		09:30-09:45	308		*15:30-15:45	388		*21:30-21:45	335	
03:45-04:00	38	123 ( 629)	09:45-10:00	379	1515 (7000)	*15:45-16:00	444	1610 (15550)	*21:45-22:00	165	819 (23963)
04:00-04:15	20		*10:00-10:15	119		*16:00-16:15	443		*22:00-22:15	124	
04:15-04:30	21		*10:15-10:30	326		*16:15-16:30	376		*22:15-22:30	123	
04:30-04:45	25		*10:30-10:45	305		*16:30-16:45	434		*22:30-22:45	104	
04:45-05:00	39	105 ( 734)	*10:45-11:00	344	1094 (8094)	*16:45-17:00	435	1688 (17238)	*22:45-23:00	107	458 (24421)
05:00-05:15	31		*11:00-11:15	328		*17:00-17:15	473		*23:00-23:15	74	
05:15-05:30	41		*11:15-11:30	353		*17:15-17:30	484		*23:15-23:30	63	
05:30-05:45	80		*11:30-11:45	373		*17:30-17:45	508		*23:30-23:45	58	
05:45-06:00	62	214 ( 948)	*11:45-12:00	460	1514 (9608)	*17:45-18:00	490	1955 (19193)	*23:45-24:00	61	256 (24677)

AM PEAK HIGHEST HOUR VOLUME: 2412

AM PEAK HOUR STARTING TIME: 07:30

PM PEAK HIGHEST HOUR VOLUME: 1984

PM PEAK HOUR STARTING TIME: 17:15

DAILY TOTAL: 24677

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90

SITE NO:

WEATHER:

DIRECTION OF FLOW: SB FR SOUTH OF DEL MAR ENT

LOCATION: SB FR (1) AND SB ENTR TO I35 (2) SOUTH OF DEL MAR

DAY # 2

TUBE NUMBER: This is 1 of 2 TUBES

DATA FILE: DM6.001

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	0		06:00-06:15	0		12:00-12:15	231		18:00-18:15	0	
00:15-00:30	0		06:15-06:30	0		12:15-12:30	209		18:15-18:30	0	
00:30-00:45	0		06:30-06:45	0		12:30-12:45	158		18:30-18:45	0	
00:45-01:00	0	0	06:45-07:00	0	0	12:45-13:00	112	710	18:45-19:00	0	0
		( 0 )			( 0 )			(2040)			(2040)
01:00-01:15	0		07:00-07:15	0		13:00-13:15	0		19:00-19:15	0	
01:15-01:30	0		07:15-07:30	0		13:15-13:30	0		19:15-19:30	0	
01:30-01:45	0		07:30-07:45	0		13:30-13:45	0		19:30-19:45	0	
01:45-02:00	0	0	07:45-08:00	0	0	13:45-14:00	0	0	19:45-20:00	0	0
		( 0 )			( 0 )			(2040)			(2040)
02:00-02:15	0		08:00-08:15	0		14:00-14:15	0		20:00-20:15	0	
02:15-02:30	0		08:15-08:30	0		14:15-14:30	0		20:15-20:30	0	
02:30-02:45	0		08:30-08:45	0		14:30-14:45	0		20:30-20:45	0	
02:45-03:00	0	0	08:45-09:00	0	0	14:45-15:00	0	0	20:45-21:00	0	0
		( 0 )			( 0 )			(2040)			(2040)
03:00-03:15	0		09:00-09:15	0		15:00-15:15	0		21:00-21:15	0	
03:15-03:30	0		09:15-09:30	0		15:15-15:30	0		21:15-21:30	0	
03:30-03:45	0		09:30-09:45	0		15:30-15:45	0		21:30-21:45	0	
03:45-04:00	0	0	09:45-10:00	0	0	15:45-16:00	0	0	21:45-22:00	0	0
		( 0 )			( 0 )			(2040)			(2040)
04:00-04:15	0		10:00-10:15	128		16:00-16:15	0		22:00-22:15	0	
04:15-04:30	0		10:15-10:30	145		16:15-16:30	0		22:15-22:30	0	
04:30-04:45	0		10:30-10:45	125		16:30-16:45	0		22:30-22:45	0	
04:45-05:00	0	0	10:45-11:00	105	503	16:45-17:00	0	0	22:45-23:00	0	0
		( 0 )			( 503 )			(2040)			(2040)
05:00-05:15	0		11:00-11:15	196		17:00-17:15	0		23:00-23:15	0	
05:15-05:30	0		11:15-11:30	190		17:15-17:30	0		23:15-23:30	0	
05:30-05:45	0		11:30-11:45	223		17:30-17:45	0		23:30-23:45	0	
05:45-06:00	0	0	11:45-12:00	218	827	17:45-18:00	0	0	23:45-24:00	0	0
		( 0 )			(1330)			(2040)			(2040)

AM PEAK HIGHEST HOUR VOLUME: 827

PM PEAK HIGHEST HOUR VOLUME: 710

AM PEAK HOUR STARTING TIME: 11:00

PM PEAK HOUR STARTING TIME: 12:00

DAILY TOTAL: 2040

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90  
 WEATHER: CLEAR  
 LOCATION: DEL MAR UNDER I35 BRIDGE  
 TUBE NUMBER: This is 1 of 2 TUBES

SITE NO:  
 DIRECTION OF FLOW: WESTBOUND  
 DAY # 1  
 DATA FILE: DM7.011

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	114		06:00-06:15	98		*12:00-12:15	529		*18:00-18:15	629	
00:15-00:30	72		06:15-06:30	183		*12:15-12:30	443		*18:15-18:30	564	
00:30-00:45	73		06:30-06:45	215		*12:30-12:45	484		*18:30-18:45	437	
00:45-01:00	30	289 ( 289)	06:45-07:00	335	831 (1900)	*12:45-13:00	584	2040 (15258)	*18:45-19:00	448	2078 (29051)
01:00-01:15	69		07:00-07:15	379		*13:00-13:15	556		*19:00-19:15	491	
01:15-01:30	31		07:15-07:30	611		*13:15-13:30	508		*19:15-19:30	323	
01:30-01:45	34		07:30-07:45	880		*13:30-13:45	412		*19:30-19:45	302	
01:45-02:00	24	158 ( 447)	07:45-08:00	1017	2887 (4787)	*13:45-14:00	538	2014 (17272)	*19:45-20:00	289	1405 (30456)
02:00-02:15	30		08:00-08:15	806		*14:00-14:15	497		*20:00-20:15	366	
02:15-02:30	53		08:15-08:30	650		*14:15-14:30	512		*20:15-20:30	277	
02:30-02:45	28		08:30-08:45	614		*14:30-14:45	474		*20:30-20:45	249	
02:45-03:00	13	124 ( 571)	08:45-09:00	743	2813 (7600)	*14:45-15:00	496	1979 (19251)	*20:45-21:00	289	1181 (31637)
03:00-03:15	13		09:00-09:15	545		*15:00-15:15	648		*21:00-21:15	224	
03:15-03:30	20		09:15-09:30	504		*15:15-15:30	585		*21:15-21:30	230	
03:30-03:45	20		09:30-09:45	440		*15:30-15:45	599		*21:30-21:45	264	
03:45-04:00	37	90 ( 661)	09:45-10:00	482	1971 (9571)	*15:45-16:00	631	2463 (21714)	*21:45-22:00	219	937 (32574)
04:00-04:15	23		10:00-10:15	431		*16:00-16:15	661		*22:00-22:15	235	
04:15-04:30	44		10:15-10:30	429		*16:15-16:30	628		*22:15-22:30	157	
04:30-04:45	35		10:30-10:45	441		*16:30-16:45	725		*22:30-22:45	155	
04:45-05:00	29	131 ( 792)	10:45-11:00	438	1739 (11310)	*16:45-17:00	630	2644 (24358)	*22:45-23:00	135	682 (33256)
05:00-05:15	46		11:00-11:15	418		*17:00-17:15	680		*23:00-23:15	120	
05:15-05:30	48		*11:15-11:30	474		*17:15-17:30	567		*23:15-23:30	73	
05:30-05:45	78		*11:30-11:45	479		*17:30-17:45	690		*23:30-23:45	104	
05:45-06:00	105	277 (1069)	*11:45-12:00	537	1908 (13218)	*17:45-18:00	678	2615 (26973)	*23:45-24:00	77	374 (33630)

AM PEAK HIGHEST HOUR VOLUME: 3353  
 AM PEAK HOUR STARTING TIME: 07:30

PM PEAK HIGHEST HOUR VOLUME: 2663  
 PM PEAK HOUR STARTING TIME: 16:15

DAILY TOTAL: 33630

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90

SITE NO:

WEATHER:

DIRECTION OF FLOW: SB ENTR TO 135 FROM DEL MAR

LOCATION: SB FR (1) AND SB ENTR TO 135 (2) SOUTH OF DEL MAR

DAY # 2

TUBE NUMBER: This is 2 of 2 TUBES

DATA FILE: DM6.001

HOURLY		HOURLY		HOURLY		HOURLY	
TIME	VOLUME	TIME	VOLUME	TIME	VOLUME	TIME	VOLUME
00:00-00:15	0	06:00-06:15	0	12:00-12:15	408	18:00-18:15	0
00:15-00:30	0	06:15-06:30	0	12:15-12:30	400	18:15-18:30	0
00:30-00:45	0	06:30-06:45	0	12:30-12:45	331	18:30-18:45	0
00:45-01:00	0	06:45-07:00	0	12:45-13:00	229	18:45-19:00	0
	( 0)		( 0)		(3996)		(3996)
01:00-01:15	0	07:00-07:15	0	13:00-13:15	0	19:00-19:15	0
01:15-01:30	0	07:15-07:30	0	13:15-13:30	0	19:15-19:30	0
01:30-01:45	0	07:30-07:45	0	13:30-13:45	0	19:30-19:45	0
01:45-02:00	0	07:45-08:00	0	13:45-14:00	0	19:45-20:00	0
	( 0)		( 0)		(3996)		(3996)
02:00-02:15	0	08:00-08:15	0	14:00-14:15	0	20:00-20:15	0
02:15-02:30	0	08:15-08:30	0	14:15-14:30	0	20:15-20:30	0
02:30-02:45	0	08:30-08:45	0	14:30-14:45	0	20:30-20:45	0
02:45-03:00	0	08:45-09:00	0	14:45-15:00	0	20:45-21:00	0
	( 0)		( 0)		(3996)		(3996)
03:00-03:15	0	09:00-09:15	0	15:00-15:15	0	21:00-21:15	0
03:15-03:30	0	09:15-09:30	0	15:15-15:30	0	21:15-21:30	0
03:30-03:45	0	09:30-09:45	0	15:30-15:45	0	21:30-21:45	0
03:45-04:00	0	09:45-10:00	0	15:45-16:00	0	21:45-22:00	0
	( 0)		( 0)		(3996)		(3996)
04:00-04:15	0	10:00-10:15	383	16:00-16:15	0	22:00-22:15	0
04:15-04:30	0	10:15-10:30	264	16:15-16:30	0	22:15-22:30	0
04:30-04:45	0	10:30-10:45	317	16:30-16:45	0	22:30-22:45	0
04:45-05:00	0	10:45-11:00	303	16:45-17:00	0	22:45-23:00	0
	( 0)		(1267)		(3996)		(3996)
05:00-05:15	0	11:00-11:15	295	17:00-17:15	0	23:00-23:15	0
05:15-05:30	0	11:15-11:30	291	17:15-17:30	0	23:15-23:30	0
05:30-05:45	0	11:30-11:45	339	17:30-17:45	0	23:30-23:45	0
05:45-06:00	0	11:45-12:00	436	17:45-18:00	0	23:45-24:00	0
	( 0)		(2628)		(3996)		(3996)

AM PEAK HIGHEST HOUR VOLUME: 1361

PM PEAK HIGHEST HOUR VOLUME: 1368

AM PEAK HOUR STARTING TIME: 11:00

PM PEAK HOUR STARTING TIME: 12:00

DAILY TOTAL: 3996

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90  
 WEATHER: CLEAR  
 LOCATION: DEL MAR UNDER I35 BRIDGE  
 TUBE NUMBER: This is 2 of 2 TUBES

SITE NO:  
 DIRECTION OF FLOW: EASTBOUND  
 DAY # 1  
 DATA FILE: DM7.011

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	51		06:00-06:15	47		*12:00-12:15	152		*18:00-18:15	122	
00:15-00:30	15		06:15-06:30	46		*12:15-12:30	124		*18:15-18:30	135	
00:30-00:45	16		06:30-06:45	53		*12:30-12:45	121		*18:30-18:45	159	
00:45-01:00	43	125 ( 125)	06:45-07:00	70	216 ( 606)	*12:45-13:00	97	494 (3422)	*18:45-19:00	99	515 (6764)
01:00-01:15	47		07:00-07:15	74		*13:00-13:15	154		*19:00-19:15	112	
01:15-01:30	8		07:15-07:30	120		*13:15-13:30	100		*19:15-19:30	99	
01:30-01:45	17		07:30-07:45	132		*13:30-13:45	131		*19:30-19:45	90	
01:45-02:00	11	83 ( 208)	07:45-08:00	174	500 (1106)	*13:45-14:00	133	518 (3940)	*19:45-20:00	76	377 (7141)
02:00-02:15	8		08:00-08:15	151		*14:00-14:15	113		*20:00-20:15	87	
02:15-02:30	17		08:15-08:30	127		*14:15-14:30	122		*20:15-20:30	70	
02:30-02:45	2		08:30-08:45	110		*14:30-14:45	126		*20:30-20:45	93	
02:45-03:00	19	46 ( 254)	08:45-09:00	171	559 (1665)	*14:45-15:00	134	495 (4435)	*20:45-21:00	89	339 (7480)
03:00-03:15	21		09:00-09:15	117		*15:00-15:15	102		*21:00-21:15	66	
03:15-03:30	2		09:15-09:30	117		*15:15-15:30	163		*21:15-21:30	47	
03:30-03:45	11		09:30-09:45	98		*15:30-15:45	140		*21:30-21:45	64	
03:45-04:00	7	41 ( 295)	09:45-10:00	69	401 (2066)	*15:45-16:00	134	539 (4974)	*21:45-22:00	58	235 (7715)
04:00-04:15	4		10:00-10:15	118		*16:00-16:15	95		*22:00-22:15	38	
04:15-04:30	10		10:15-10:30	91		*16:15-16:30	134		*22:15-22:30	30	
04:30-04:45	5		10:30-10:45	94		*16:30-16:45	205		*22:30-22:45	35	
04:45-05:00	6	25 ( 320)	10:45-11:00	100	403 (2469)	*16:45-17:00	158	592 (5566)	*22:45-23:00	37	140 (7855)
05:00-05:15	11		11:00-11:15	108		*17:00-17:15	176		*23:00-23:15	52	
05:15-05:30	16		*11:15-11:30	128		*17:15-17:30	174		*23:15-23:30	38	
05:30-05:45	20		*11:30-11:45	87		*17:30-17:45	172		*23:30-23:45	43	
05:45-06:00	23	70 ( 390)	*11:45-12:00	136	459 (2928)	*17:45-18:00	161	683 (6249)	*23:45-24:00	41	174 (8029)

AM PEAK HIGHEST HOUR VOLUME: 584  
 AM PEAK HOUR STARTING TIME: 07:30

PM PEAK HIGHEST HOUR VOLUME: 713  
 PM PEAK HOUR STARTING TIME: 16:30

DAILY TOTAL: 8029

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90  
 WEATHER: CLEAR  
 LOCATION: DEL MAR UNDER I35 BRIDGE  
 TUBE NUMBER: This is 1 of 2 TUBES

SITE NO:  
 DIRECTION OF FLOW: WESTBOUND  
 DAY # 2  
 DATA FILE: DM7.011

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	0		06:00-06:15	0		12:00-12:15	0		18:00-18:15	0	
00:15-00:30	0		06:15-06:30	0		12:15-12:30	0		18:15-18:30	0	
00:30-00:45	0		06:30-06:45	0		12:30-12:45	0		18:30-18:45	0	
00:45-01:00	0	0	06:45-07:00	0	0	12:45-13:00	0	0	18:45-19:00	0	0
		( 0)			( 0)			(1704)			(1704)
01:00-01:15	0		07:00-07:15	0		13:00-13:15	0		19:00-19:15	0	
01:15-01:30	0		07:15-07:30	0		13:15-13:30	0		19:15-19:30	0	
01:30-01:45	0		07:30-07:45	0		13:30-13:45	0		19:30-19:45	0	
01:45-02:00	0	0	07:45-08:00	0	0	13:45-14:00	0	0	19:45-20:00	0	0
		( 0)			( 0)			(1704)			(1704)
02:00-02:15	0		08:00-08:15	0		14:00-14:15	0		20:00-20:15	0	
02:15-02:30	0		08:15-08:30	0		14:15-14:30	0		20:15-20:30	0	
02:30-02:45	0		08:30-08:45	0		14:30-14:45	0		20:30-20:45	0	
02:45-03:00	0	0	08:45-09:00	0	0	14:45-15:00	0	0	20:45-21:00	0	0
		( 0)			( 0)			(1704)			(1704)
03:00-03:15	0		09:00-09:15	0		15:00-15:15	0		21:00-21:15	0	
03:15-03:30	0		09:15-09:30	0		15:15-15:30	0		21:15-21:30	0	
03:30-03:45	0		09:30-09:45	0		15:30-15:45	0		21:30-21:45	0	
03:45-04:00	0	0	09:45-10:00	0	0	15:45-16:00	0	0	21:45-22:00	0	0
		( 0)			( 0)			(1704)			(1704)
04:00-04:15	0		10:00-10:15	0		16:00-16:15	0		22:00-22:15	0	
04:15-04:30	0		10:15-10:30	0		16:15-16:30	0		22:15-22:30	0	
04:30-04:45	0		10:30-10:45	0		16:30-16:45	0		22:30-22:45	0	
04:45-05:00	0	0	10:45-11:00	0	0	16:45-17:00	0	0	22:45-23:00	0	0
		( 0)			( 0)			(1704)			(1704)
05:00-05:15	0		11:00-11:15	0		17:00-17:15	0		23:00-23:15	0	
05:15-05:30	0		11:15-11:30	553		17:15-17:30	0		23:15-23:30	0	
05:30-05:45	0		11:30-11:45	591		17:30-17:45	0		23:30-23:45	0	
05:45-06:00	0	0	11:45-12:00	560	1704	17:45-18:00	0	0	23:45-24:00	0	0
		( 0)			(1704)			(1704)			(1704)

AM PEAK HIGHEST HOUR VOLUME: 1704  
 AM PEAK HOUR STARTING TIME: 11:00

PM PEAK HIGHEST HOUR VOLUME: 0  
 PM PEAK HOUR STARTING TIME:

DAILY TOTAL: 1704

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90  
 WEATHER: CLEAR  
 LOCATION: MB U-TURN UNDER I35  
 TUBE NUMBER: This is 1 of 1 TUBES

SITE NO:  
 DIRECTION OF FLOW: MB U-TURN UNDER BRIDGE  
 DAY # 1  
 DATA FILE: DM8.000

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	19		06:00-06:15	39		*12:00-12:15	142		*18:00-18:15	127	
00:15-00:30	41		06:15-06:30	59		*12:15-12:30	127		*18:15-18:30	119	
00:30-00:45	16		06:30-06:45	102		*12:30-12:45	108		*18:30-18:45	143	
00:45-01:00	24	100 ( 100)	06:45-07:00	125	325 ( 717)	*12:45-13:00	142	519 (3830)	*18:45-19:00	100	489 (6801)
01:00-01:15	14		07:00-07:15	81		*13:00-13:15	147		*19:00-19:15	99	
01:15-01:30	17		07:15-07:30	101		*13:15-13:30	109		*19:15-19:30	92	
01:30-01:45	11		07:30-07:45	167		*13:30-13:45	140		*19:30-19:45	94	
01:45-02:00	14	56 ( 156)	07:45-08:00	250	599 (1316)	*13:45-14:00	156	552 (4382)	*19:45-20:00	88	373 (7174)
02:00-02:15	19		08:00-08:15	188		*14:00-14:15	83		*20:00-20:15	127	
02:15-02:30	12		08:15-08:30	199		*14:15-14:30	129		*20:15-20:30	98	
02:30-02:45	11		08:30-08:45	163		*14:30-14:45	129		*20:30-20:45	99	
02:45-03:00	17	59 ( 215)	08:45-09:00	135	685 (2001)	*14:45-15:00	121	462 (4844)	*20:45-21:00	98	422 (7596)
03:00-03:15	18		09:00-09:15	126		*15:00-15:15	93		*21:00-21:15	101	
03:15-03:30	15		09:15-09:30	95		*15:15-15:30	126		*21:15-21:30	95	
03:30-03:45	2		09:30-09:45	88		*15:30-15:45	106		*21:30-21:45	328	
03:45-04:00	10	45 ( 260)	09:45-10:00	101	410 (2411)	*15:45-16:00	138	463 (5307)	*21:45-22:00	122	646 (8242)
04:00-04:15	3		10:00-10:15	92		*16:00-16:15	125		*22:00-22:15	66	
04:15-04:30	8		10:15-10:30	93		*16:15-16:30	111		*22:15-22:30	85	
04:30-04:45	11		10:30-10:45	85		*16:30-16:45	113		*22:30-22:45	81	
04:45-05:00	19	41 ( 301)	10:45-11:00	87	357 (2768)	*16:45-17:00	93	442 (5749)	*22:45-23:00	73	305 (8547)
05:00-05:15	16		11:00-11:15	117		*17:00-17:15	165		*23:00-23:15	90	
05:15-05:30	16		11:15-11:30	115		*17:15-17:30	120		*23:15-23:30	67	
05:30-05:45	23		11:30-11:45	133		*17:30-17:45	170		*23:30-23:45	42	
05:45-06:00	36	91 ( 392)	11:45-12:00	178	543 (3311)	*17:45-18:00	108	563 (6312)	*23:45-24:00	60	259 (8806)

AM PEAK HIGHEST HOUR VOLUME: 804  
 AM PEAK HOUR STARTING TIME: 07:30

PM PEAK HIGHEST HOUR VOLUME: 646  
 PM PEAK HOUR STARTING TIME: 21:00

DAILY TOTAL: 8806



TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90  
 WEATHER: CLEAR  
 LOCATION: DEL MAR UNDER I35 BRIDGE  
 TUBE NUMBER: This is 2 of 2 TUBES

SITE NO:  
 DIRECTION OF FLOW: EASTBOUND  
 DAY # 2  
 DATA FILE: DM7.011

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	0		06:00-06:15	0		12:00-12:15	0		18:00-18:15	0	
00:15-00:30	0		06:15-06:30	0		12:15-12:30	0		18:15-18:30	0	
00:30-00:45	0		06:30-06:45	0		12:30-12:45	0		18:30-18:45	0	
00:45-01:00	0	0	06:45-07:00	0	0	12:45-13:00	0	0	18:45-19:00	0	0
		( 0)			( 0)			( 255)			( 255)
01:00-01:15	0		07:00-07:15	0		13:00-13:15	0		19:00-19:15	0	
01:15-01:30	0		07:15-07:30	0		13:15-13:30	0		19:15-19:30	0	
01:30-01:45	0		07:30-07:45	0		13:30-13:45	0		19:30-19:45	0	
01:45-02:00	0	0	07:45-08:00	0	0	13:45-14:00	0	0	19:45-20:00	0	0
		( 0)			( 0)			( 255)			( 255)
02:00-02:15	0		08:00-08:15	0		14:00-14:15	0		20:00-20:15	0	
02:15-02:30	0		08:15-08:30	0		14:15-14:30	0		20:15-20:30	0	
02:30-02:45	0		08:30-08:45	0		14:30-14:45	0		20:30-20:45	0	
02:45-03:00	0	0	08:45-09:00	0	0	14:45-15:00	0	0	20:45-21:00	0	0
		( 0)			( 0)			( 255)			( 255)
03:00-03:15	0		09:00-09:15	0		15:00-15:15	0		21:00-21:15	0	
03:15-03:30	0		09:15-09:30	0		15:15-15:30	0		21:15-21:30	0	
03:30-03:45	0		09:30-09:45	0		15:30-15:45	0		21:30-21:45	0	
03:45-04:00	0	0	09:45-10:00	0	0	15:45-16:00	0	0	21:45-22:00	0	0
		( 0)			( 0)			( 255)			( 255)
04:00-04:15	0		10:00-10:15	0		16:00-16:15	0		22:00-22:15	0	
04:15-04:30	0		10:15-10:30	0		16:15-16:30	0		22:15-22:30	0	
04:30-04:45	0		10:30-10:45	0		16:30-16:45	0		22:30-22:45	0	
04:45-05:00	0	0	10:45-11:00	0	0	16:45-17:00	0	0	22:45-23:00	0	0
		( 0)			( 0)			( 255)			( 255)
05:00-05:15	0		11:00-11:15	0		17:00-17:15	0		23:00-23:15	0	
05:15-05:30	0		11:15-11:30	73		17:15-17:30	0		23:15-23:30	0	
05:30-05:45	0		11:30-11:45	97		17:30-17:45	0		23:30-23:45	0	
05:45-06:00	0	0	11:45-12:00	85	255	17:45-18:00	0	0	23:45-24:00	0	0
		( 0)			( 255)			( 255)			( 255)

AM PEAK HIGHEST HOUR VOLUME: 255  
 AM PEAK HOUR STARTING TIME: 11:00

PM PEAK HIGHEST HOUR VOLUME: 0  
 PM PEAK HOUR STARTING TIME:

DAILY TOTAL: 255

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90  
 WEATHER: CLEAR  
 LOCATION: EAST SIDE FR AND ENTR NORTH OF DEL MAR  
 TUBE NUMBER: This is 1 of 3 TUBES

SITE NO:  
 DIRECTION OF FLOW: NORTHBOUND FR N OF ENTR  
 DAY # 1  
 DATA FILE: DM10.003

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	1		06:00-06:15	14		*12:00-12:15	35		*18:00-18:15	0	
00:15-00:30	14		06:15-06:30	12		*12:15-12:30	-5		*18:15-18:30	14	
00:30-00:45	2		06:30-06:45	11		*12:30-12:45	1		*18:30-18:45	7	
00:45-01:00	11	28 ( 28)	06:45-07:00	57	94 ( 183)	*12:45-13:00	30	61 ( 671)	*18:45-19:00	20	41 ( 835)
01:00-01:15	1		07:00-07:15	26		*13:00-13:15	9		*19:00-19:15	27	
01:15-01:30	6		07:15-07:30	3		*13:15-13:30	11		*19:15-19:30	15	
01:30-01:45	2		07:30-07:45	21		*13:30-13:45	37		*19:30-19:45	22	
01:45-02:00	2	11 ( 39)	07:45-08:00	40	90 ( 273)	*13:45-14:00	17	74 ( 745)	*19:45-20:00	20	84 ( 919)
02:00-02:15	-1		08:00-08:15	29		*14:00-14:15	8		*20:00-20:15	4	
02:15-02:30	4		08:15-08:30	46		*14:15-14:30	31		*20:15-20:30	19	
02:30-02:45	0		08:30-08:45	27		*14:30-14:45	30		*20:30-20:45	15	
02:45-03:00	4	7 ( 46)	08:45-09:00	42	144 ( 417)	*14:45-15:00	32	101 ( 846)	*20:45-21:00	23	61 ( 980)
03:00-03:15	0		09:00-09:15	20		*15:00-15:15	35		*21:00-21:15	25	
03:15-03:30	4		09:15-09:30	6		*15:15-15:30	-10		*21:15-21:30	7	
03:30-03:45	5		09:30-09:45	19		*15:30-15:45	-13		*21:30-21:45	15	
03:45-04:00	4	13 ( 59)	09:45-10:00	29	74 ( 491)	*15:45-16:00	23	35 ( 881)	*21:45-22:00	16	63 (1043)
04:00-04:15	0		10:00-10:15	16		*16:00-16:15	-35		*22:00-22:15	10	
04:15-04:30	3		10:15-10:30	-1		*16:15-16:30	17		*22:15-22:30	12	
04:30-04:45	-1		10:30-10:45	9		*16:30-16:45	-11		*22:30-22:45	10	
04:45-05:00	6	8 ( 67)	*10:45-11:00	17	41 ( 532)	*16:45-17:00	-4	-33 ( 848)	*22:45-23:00	10	42 (1085)
05:00-05:15	3		*11:00-11:15	0		*17:00-17:15	-14		*23:00-23:15	9	
05:15-05:30	6		*11:15-11:30	11		*17:15-17:30	-13		*23:15-23:30	15	
05:30-05:45	4		*11:30-11:45	36		*17:30-17:45	-25		*23:30-23:45	6	
05:45-06:00	9	22 ( 89)	*11:45-12:00	31	78 ( 610)	*17:45-18:00	-2	-54 ( 794)	*23:45-24:00	5	35 (1120)

AM PEAK HIGHEST HOUR VOLUME: 144  
 AM PEAK HOUR STARTING TIME: 08:00

PM PEAK HIGHEST HOUR VOLUME: 128  
 PM PEAK HOUR STARTING TIME: 14:15

DAILY TOTAL: 1120

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90  
 WEATHER: CLEAR  
 LOCATION: WB U-TURN UNDER I35  
 TUBE NUMBER: This is 1 of 1 TUBES

SITE NO:  
 DIRECTION OF FLOW: WB U-TURN UNDER BRIDGE  
 DAY # 2  
 DATA FILE: DMB.000

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	0		06:00-06:15	0		12:00-12:15	132		18:00-18:15	0	
00:15-00:30	0		06:15-06:30	0		12:15-12:30	144		18:15-18:30	0	
00:30-00:45	0		06:30-06:45	0		12:30-12:45	58		18:30-18:45	0	
00:45-01:00	0	0	06:45-07:00	0	0	12:45-13:00	0	334	18:45-19:00	0	0
		( 0)			( 0)			( 334)			( 334)
01:00-01:15	0		07:00-07:15	0		13:00-13:15	0		19:00-19:15	0	
01:15-01:30	0		07:15-07:30	0		13:15-13:30	0		19:15-19:30	0	
01:30-01:45	0		07:30-07:45	0		13:30-13:45	0		19:30-19:45	0	
01:45-02:00	0	0	07:45-08:00	0	0	13:45-14:00	0	0	19:45-20:00	0	0
		( 0)			( 0)			( 334)			( 334)
02:00-02:15	0		08:00-08:15	0		14:00-14:15	0		20:00-20:15	0	
02:15-02:30	0		08:15-08:30	0		14:15-14:30	0		20:15-20:30	0	
02:30-02:45	0		08:30-08:45	0		14:30-14:45	0		20:30-20:45	0	
02:45-03:00	0	0	08:45-09:00	0	0	14:45-15:00	0	0	20:45-21:00	0	0
		( 0)			( 0)			( 334)			( 334)
03:00-03:15	0		09:00-09:15	0		15:00-15:15	0		21:00-21:15	0	
03:15-03:30	0		09:15-09:30	0		15:15-15:30	0		21:15-21:30	0	
03:30-03:45	0		09:30-09:45	0		15:30-15:45	0		21:30-21:45	0	
03:45-04:00	0	0	09:45-10:00	0	0	15:45-16:00	0	0	21:45-22:00	0	0
		( 0)			( 0)			( 334)			( 334)
04:00-04:15	0		10:00-10:15	0		16:00-16:15	0		22:00-22:15	0	
04:15-04:30	0		10:15-10:30	0		16:15-16:30	0		22:15-22:30	0	
04:30-04:45	0		10:30-10:45	0		16:30-16:45	0		22:30-22:45	0	
04:45-05:00	0	0	10:45-11:00	0	0	16:45-17:00	0	0	22:45-23:00	0	0
		( 0)			( 0)			( 334)			( 334)
05:00-05:15	0		11:00-11:15	0		17:00-17:15	0		23:00-23:15	0	
05:15-05:30	0		11:15-11:30	0		17:15-17:30	0		23:15-23:30	0	
05:30-05:45	0		11:30-11:45	0		17:30-17:45	0		23:30-23:45	0	
05:45-06:00	0	0	11:45-12:00	0	0	17:45-18:00	0	0	23:45-24:00	0	0
		( 0)			( 0)			( 334)			( 334)

AM PEAK HIGHEST HOUR VOLUME: 0  
 AM PEAK HOUR STARTING TIME:

PM PEAK HIGHEST HOUR VOLUME: 334  
 PM PEAK HOUR STARTING TIME: 12:00

DAILY TOTAL: 334

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90  
 WEATHER: CLEAR  
 LOCATION: EAST SIDE FR AND ENTR NORTH OF DEL MAR  
 TUBE NUMBER: This is 2 of 3 TUBES

SITE NO:  
 DIRECTION OF FLOW: *S Acth* NORTHBOUND FR N OF ENTR  
 DAY # 1  
 DATA FILE: DN10.003

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	43		06:00-06:15	16		*12:00-12:15	218		*18:00-18:15	202	
00:15-00:30	14		06:15-06:30	26		*12:15-12:30	201		*18:15-18:30	127	
00:30-00:45	8		06:30-06:45	45		*12:30-12:45	148		*18:30-18:45	127	
00:45-01:00	8	73 ( 73)	06:45-07:00	59	146 ( 331)	*12:45-13:00	161	728 (4041)	*18:45-19:00	86	542 (8499)
01:00-01:15	3		07:00-07:15	70		*13:00-13:15	251		*19:00-19:15	112	
01:15-01:30	6		07:15-07:30	75		*13:15-13:30	188		*19:15-19:30	87	
01:30-01:45	9		07:30-07:45	122		*13:30-13:45	139		*19:30-19:45	49	
01:45-02:00	2	20 ( 93)	07:45-08:00	132	399 ( 730)	*13:45-14:00	146	724 (4765)	*19:45-20:00	43	291 (8790)
02:00-02:15	3		08:00-08:15	165		*14:00-14:15	215		*20:00-20:15	100	
02:15-02:30	4		08:15-08:30	123		*14:15-14:30	141		*20:15-20:30	39	
02:30-02:45	0		08:30-08:45	182		*14:30-14:45	151		*20:30-20:45	48	
02:45-03:00	4	11 ( 104)	08:45-09:00	254	724 (1454)	*14:45-15:00	189	696 (5461)	*20:45-21:00	27	214 (9004)
03:00-03:15	2		09:00-09:15	159		*15:00-15:15	155		*21:00-21:15	36	
03:15-03:30	0		09:15-09:30	185		*15:15-15:30	238		*21:15-21:30	28	
03:30-03:45	5		09:30-09:45	175		*15:30-15:45	256		*21:30-21:45	51	
03:45-04:00	10	17 ( 121)	09:45-10:00	143	662 (2116)	*15:45-16:00	169	818 (6279)	*21:45-22:00	53	168 (9172)
04:00-04:15	0		10:00-10:15	161		*16:00-16:15	242		*22:00-22:15	22	
04:15-04:30	9		10:15-10:30	148		*16:15-16:30	159		*22:15-22:30	60	
04:30-04:45	7		10:30-10:45	163		*16:30-16:45	225		*22:30-22:45	44	
04:45-05:00	10	26 ( 147)	*10:45-11:00	143	615 (2731)	*16:45-17:00	206	832 (7111)	*22:45-23:00	25	151 (9323)
05:00-05:15	9		*11:00-11:15	137		*17:00-17:15	224		*23:00-23:15	15	
05:15-05:30	8		*11:15-11:30	145		*17:15-17:30	219		*23:15-23:30	9	
05:30-05:45	10		*11:30-11:45	139		*17:30-17:45	226		*23:30-23:45	18	
05:45-06:00	11	38 ( 185)	*11:45-12:00	161	582 (3313)	*17:45-18:00	177	846 (7957)	*23:45-24:00	17	59 (9382)

AM PEAK HIGHEST HOUR VOLUME: 780  
 AM PEAK HOUR STARTING TIME: 08:30

PM PEAK HIGHEST HOUR VOLUME: 905  
 PM PEAK HOUR STARTING TIME: 15:15

DAILY TOTAL: 9382

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90  
 WEATHER: CLEAR  
 LOCATION: EAST SIDE FR AND ENTR NORTH OF DEL MAR  
 TUBE NUMBER: This is 1 of 3 TUBES

SITE NO:  
 DIRECTION OF FLOW: NORTHBOUND FR N OF ENTR  
 DAY # 2  
 DATA FILE: DM10.003

HOURLY		HOURLY		HOURLY		HOURLY	
TIME	VOLUME	TIME	VOLUME	TIME	VOLUME	TIME	VOLUME
00:00-00:15	0	06:00-06:15	0	12:00-12:15	0	18:00-18:15	0
00:15-00:30	0	06:15-06:30	0	12:15-12:30	0	18:15-18:30	0
00:30-00:45	0	06:30-06:45	0	12:30-12:45	0	18:30-18:45	0
00:45-01:00	0	06:45-07:00	0	12:45-13:00	0	18:45-19:00	0
	( 0)		( 0)		( 85)		( 85)
01:00-01:15	0	07:00-07:15	0	13:00-13:15	0	19:00-19:15	0
01:15-01:30	0	07:15-07:30	0	13:15-13:30	0	19:15-19:30	0
01:30-01:45	0	07:30-07:45	0	13:30-13:45	0	19:30-19:45	0
01:45-02:00	0	07:45-08:00	0	13:45-14:00	0	19:45-20:00	0
	( 0)		( 0)		( 85)		( 85)
02:00-02:15	0	08:00-08:15	0	14:00-14:15	0	20:00-20:15	0
02:15-02:30	0	08:15-08:30	0	14:15-14:30	0	20:15-20:30	0
02:30-02:45	0	08:30-08:45	0	14:30-14:45	0	20:30-20:45	0
02:45-03:00	0	08:45-09:00	0	14:45-15:00	0	20:45-21:00	0
	( 0)		( 0)		( 85)		( 85)
03:00-03:15	0	09:00-09:15	0	15:00-15:15	0	21:00-21:15	0
03:15-03:30	0	09:15-09:30	0	15:15-15:30	0	21:15-21:30	0
03:30-03:45	0	09:30-09:45	0	15:30-15:45	0	21:30-21:45	0
03:45-04:00	0	09:45-10:00	0	15:45-16:00	0	21:45-22:00	0
	( 0)		( 0)		( 85)		( 85)
04:00-04:15	0	10:00-10:15	0	16:00-16:15	0	22:00-22:15	0
04:15-04:30	0	10:15-10:30	0	16:15-16:30	0	22:15-22:30	0
04:30-04:45	0	10:30-10:45	0	16:30-16:45	0	22:30-22:45	0
04:45-05:00	0	10:45-11:00	24	16:45-17:00	0	22:45-23:00	0
	( 0)		( 24)		( 85)		( 85)
05:00-05:15	0	11:00-11:15	21	17:00-17:15	0	23:00-23:15	0
05:15-05:30	0	11:15-11:30	10	17:15-17:30	0	23:15-23:30	0
05:30-05:45	0	11:30-11:45	17	17:30-17:45	0	23:30-23:45	0
05:45-06:00	0	11:45-12:00	13	17:45-18:00	0	23:45-24:00	0
	( 0)		( 85)		( 85)		( 85)

AM PEAK HIGHEST HOUR VOLUME: 72  
 AM PEAK HOUR STARTING TIME: 10:45

PM PEAK HIGHEST HOUR VOLUME: 0  
 PM PEAK HOUR STARTING TIME:

DAILY TOTAL: 85

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90  
 WEATHER: CLEAR  
 LOCATION: EAST SIDE FR AND ENTR NORTH OF DEL MAR  
 TUBE NUMBER: This is 3 of 3 TUBES

SITE NO:  
 DIRECTION OF FLOW: NORTHBOUND ENTR FROM DEL MAR  
 DAY # 1  
 DATA FILE: DM10.003

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	19		06:00-06:15	29		*12:00-12:15	36		*18:00-18:15	25	
00:15-00:30	3		06:15-06:30	29		*12:15-12:30	56		*18:15-18:30	22	
00:30-00:45	2		06:30-06:45	26		*12:30-12:45	34		*18:30-18:45	51	
00:45-01:00	17	41 ( 41)	06:45-07:00	33	117 ( 331)	*12:45-13:00	39	165 (1390)	*18:45-19:00	30	128 (2572)
01:00-01:15	17		07:00-07:15	23		*13:00-13:15	69		*19:00-19:15	17	
01:15-01:30	0		07:15-07:30	71		*13:15-13:30	56		*19:15-19:30	52	
01:30-01:45	7		07:30-07:45	31		*13:30-13:45	59		*19:30-19:45	11	
01:45-02:00	10	34 ( 75)	07:45-08:00	37	162 ( 493)	*13:45-14:00	69	253 (1643)	*19:45-20:00	39	119 (2691)
02:00-02:15	11		08:00-08:15	47		*14:00-14:15	42		*20:00-20:15	30	
02:15-02:30	11		08:15-08:30	64		*14:15-14:30	54		*20:15-20:30	39	
02:30-02:45	0		08:30-08:45	35		*14:30-14:45	39		*20:30-20:45	62	
02:45-03:00	15	37 ( 112)	08:45-09:00	39	185 ( 678)	*14:45-15:00	47	182 (1825)	*20:45-21:00	45	176 (2867)
03:00-03:15	15		09:00-09:15	48		*15:00-15:15	22		*21:00-21:15	28	
03:15-03:30	0		09:15-09:30	48		*15:15-15:30	72		*21:15-21:30	17	
03:30-03:45	17		09:30-09:45	45		*15:30-15:45	54		*21:30-21:45	36	
03:45-04:00	2	34 ( 146)	09:45-10:00	33	174 ( 852)	*15:45-16:00	40	188 (2013)	*21:45-22:00	33	114 (2981)
04:00-04:15	4		10:00-10:15	56		*16:00-16:15	51		*22:00-22:15	26	
04:15-04:30	2		10:15-10:30	52		*16:15-16:30	56		*22:15-22:30	7	
04:30-04:45	9		10:30-10:45	34		*16:30-16:45	59		*22:30-22:45	20	
04:45-05:00	2	17 ( 163)	*10:45-11:00	39	181 (1033)	*16:45-17:00	62	228 (2241)	*22:45-23:00	14	67 (3048)
05:00-05:15	13		*11:00-11:15	52		*17:00-17:15	48		*23:00-23:15	23	
05:15-05:30	2		*11:15-11:30	46		*17:15-17:30	47		*23:15-23:30	10	
05:30-05:45	12		*11:30-11:45	38		*17:30-17:45	48		*23:30-23:45	11	
05:45-06:00	24	51 ( 214)	*11:45-12:00	56	192 (1225)	*17:45-18:00	60	203 (2444)	*23:45-24:00	9	53 (3101)

AM PEAK HIGHEST HOUR VOLUME: 192  
 AM PEAK HOUR STARTING TIME: 11:00

PM PEAK HIGHEST HOUR VOLUME: 253  
 PM PEAK HOUR STARTING TIME: 13:00

DAILY TOTAL: 3101

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90  
 WEATHER: CLEAR  
 LOCATION: EAST SIDE FR AND ENTR NORTH OF DEL MAR  
 TUBE NUMBER: This is 2 of 3 TUBES

SITE NO: *South*  
 DIRECTION OF FLOW: ~~NORTHBOUND~~ FR N OF ENTR  
 DAY # 2  
 DATA FILE: DM10.003

TIME	HOURLY VOLUME	TIME	HOURLY VOLUME	TIME	HOURLY VOLUME	TIME	HOURLY VOLUME
00:00-00:15	0	06:00-06:15	0	12:00-12:15	0	18:00-18:15	0
00:15-00:30	0	06:15-06:30	0	12:15-12:30	0	18:15-18:30	0
00:30-00:45	0	06:30-06:45	0	12:30-12:45	0	18:30-18:45	0
00:45-01:00	0	06:45-07:00	0	12:45-13:00	0	18:45-19:00	0
	( 0 )		( 0 )		( 774 )		( 774 )
01:00-01:15	0	07:00-07:15	0	13:00-13:15	0	19:00-19:15	0
01:15-01:30	0	07:15-07:30	0	13:15-13:30	0	19:15-19:30	0
01:30-01:45	0	07:30-07:45	0	13:30-13:45	0	19:30-19:45	0
01:45-02:00	0	07:45-08:00	0	13:45-14:00	0	19:45-20:00	0
	( 0 )		( 0 )		( 774 )		( 774 )
02:00-02:15	0	08:00-08:15	0	14:00-14:15	0	20:00-20:15	0
02:15-02:30	0	08:15-08:30	0	14:15-14:30	0	20:15-20:30	0
02:30-02:45	0	08:30-08:45	0	14:30-14:45	0	20:30-20:45	0
02:45-03:00	0	08:45-09:00	0	14:45-15:00	0	20:45-21:00	0
	( 0 )		( 0 )		( 774 )		( 774 )
03:00-03:15	0	09:00-09:15	0	15:00-15:15	0	21:00-21:15	0
03:15-03:30	0	09:15-09:30	0	15:15-15:30	0	21:15-21:30	0
03:30-03:45	0	09:30-09:45	0	15:30-15:45	0	21:30-21:45	0
03:45-04:00	0	09:45-10:00	0	15:45-16:00	0	21:45-22:00	0
	( 0 )		( 0 )		( 774 )		( 774 )
04:00-04:15	0	10:00-10:15	0	16:00-16:15	0	22:00-22:15	0
04:15-04:30	0	10:15-10:30	0	16:15-16:30	0	22:15-22:30	0
04:30-04:45	0	10:30-10:45	0	16:30-16:45	0	22:30-22:45	0
04:45-05:00	0	10:45-11:00	124	16:45-17:00	0	22:45-23:00	0
	( 0 )		( 124 )		( 774 )		( 774 )
05:00-05:15	0	11:00-11:15	150	17:00-17:15	0	23:00-23:15	0
05:15-05:30	0	11:15-11:30	164	17:15-17:30	0	23:15-23:30	0
05:30-05:45	0	11:30-11:45	148	17:30-17:45	0	23:30-23:45	0
05:45-06:00	0	11:45-12:00	188	17:45-18:00	0	23:45-24:00	0
	( 0 )		( 774 )		( 774 )		( 774 )

AM PEAK HIGHEST HOUR VOLUME: 650  
 AM PEAK HOUR STARTING TIME: 11:00

PM PEAK HIGHEST HOUR VOLUME: 0  
 PM PEAK HOUR STARTING TIME:

DAILY TOTAL: 774

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90

WEATHER: CLEAR

LOCATION: NORTHBOUND I35 MAINLANES AT DEL MAR

TUBE NUMBER: This is 1 of 1 TUBES

SITE NO:

DIRECTION OF FLOW: NORTHBOUND N OF DEL MAR EXIT

DAY # 1

DATA FILE: DM11.002

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	27		06:00-06:15	56		12:00-12:15	189		*18:00-18:15	93	
00:15-00:30	11		06:15-06:30	66		*12:15-12:30	162		*18:15-18:30	164	
00:30-00:45	9		06:30-06:45	62		*12:30-12:45	171		*18:30-18:45	109	
00:45-01:00	27	74 ( 74)	06:45-07:00	80	264 ( 874)	*12:45-13:00	193	715 (4829)	*18:45-19:00	114	480 (9251)
01:00-01:15	11		07:00-07:15	110		*13:00-13:15	182		*19:00-19:15	102	
01:15-01:30	38		07:15-07:30	125		*13:15-13:30	222		*19:15-19:30	69	
01:30-01:45	30		07:30-07:45	149		*13:30-13:45	188		*19:30-19:45	88	
01:45-02:00	4	83 ( 157)	07:45-08:00	153	537 (1411)	*13:45-14:00	197	789 (5618)	*19:45-20:00	66	325 (9576)
02:00-02:15	19		08:00-08:15	205		*14:00-14:15	215		*20:00-20:15	77	
02:15-02:30	23		08:15-08:30	216		*14:15-14:30	229		*20:15-20:30	114	
02:30-02:45	19		08:30-08:45	194		*14:30-14:45	200		*20:30-20:45	66	
02:45-03:00	6	67 ( 224)	08:45-09:00	202	817 (2228)	*14:45-15:00	188	832 (6450)	*20:45-21:00	59	316 (9892)
03:00-03:15	28		09:00-09:15	153		*15:00-15:15	190		*21:00-21:15	44	
03:15-03:30	28		09:15-09:30	146		*15:15-15:30	211		*21:15-21:30	68	
03:30-03:45	23		09:30-09:45	179		*15:30-15:45	171		*21:30-21:45	101	
03:45-04:00	21	100 ( 324)	09:45-10:00	142	620 (2848)	*15:45-16:00	185	757 (7207)	*21:45-22:00	27	240 (10132)
04:00-04:15	13		10:00-10:15	167		*16:00-16:15	188		*22:00-22:15	38	
04:15-04:30	24		10:15-10:30	175		*16:15-16:30	210		*22:15-22:30	38	
04:30-04:45	34		10:30-10:45	178		*16:30-16:45	253		*22:30-22:45	44	
04:45-05:00	15	86 ( 410)	10:45-11:00	118	638 (3486)	*16:45-17:00	233	884 (8091)	*22:45-23:00	20	140 (10272)
05:00-05:15	38		11:00-11:15	129		*17:00-17:15	183		*23:00-23:15	27	
05:15-05:30	55		11:15-11:30	161		*17:15-17:30	177		*23:15-23:30	31	
05:30-05:45	65		11:30-11:45	160		*17:30-17:45	159		*23:30-23:45	14	
05:45-06:00	42	200 ( 610)	11:45-12:00	178	628 (4114)	*17:45-18:00	161	680 (8771)	*23:45-24:00	13	85 (10357)

AM PEAK HIGHEST HOUR VOLUME: 817  
AM PEAK HOUR STARTING TIME: 08:00

PM PEAK HIGHEST HOUR VOLUME: 884  
PM PEAK HOUR STARTING TIME: 16:00

DAILY TOTAL: 10357



TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90  
 WEATHER: CLEAR  
 LOCATION: EAST SIDE FR AND ENTR NORTH OF DEL MAR  
 TUBE NUMBER: This is 3 of 3 TUBES

SITE NO:  
 DIRECTION OF FLOW: NORTHBOUND ENTR FROM DEL MAR  
 DAY # 2  
 DATA FILE: DM10.003

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	0		06:00-06:15	0		12:00-12:15	0		18:00-18:15	0	
00:15-00:30	0		06:15-06:30	0		12:15-12:30	0		18:15-18:30	0	
00:30-00:45	0		06:30-06:45	0		12:30-12:45	0		18:30-18:45	0	
00:45-01:00	0	( 0)	06:45-07:00	0	( 0)	12:45-13:00	0	( 210)	18:45-19:00	0	( 210)
01:00-01:15	0		07:00-07:15	0		13:00-13:15	0		19:00-19:15	0	
01:15-01:30	0		07:15-07:30	0		13:15-13:30	0		19:15-19:30	0	
01:30-01:45	0		07:30-07:45	0		13:30-13:45	0		19:30-19:45	0	
01:45-02:00	0	( 0)	07:45-08:00	0	( 0)	13:45-14:00	0	( 210)	19:45-20:00	0	( 210)
02:00-02:15	0		08:00-08:15	0		14:00-14:15	0		20:00-20:15	0	
02:15-02:30	0		08:15-08:30	0		14:15-14:30	0		20:15-20:30	0	
02:30-02:45	0		08:30-08:45	0		14:30-14:45	0		20:30-20:45	0	
02:45-03:00	0	( 0)	08:45-09:00	0	( 0)	14:45-15:00	0	( 210)	20:45-21:00	0	( 210)
03:00-03:15	0		09:00-09:15	0		15:00-15:15	0		21:00-21:15	0	
03:15-03:30	0		09:15-09:30	0		15:15-15:30	0		21:15-21:30	0	
03:30-03:45	0		09:30-09:45	0		15:30-15:45	0		21:30-21:45	0	
03:45-04:00	0	( 0)	09:45-10:00	0	( 0)	15:45-16:00	0	( 210)	21:45-22:00	0	( 210)
04:00-04:15	0		10:00-10:15	0		16:00-16:15	0		22:00-22:15	0	
04:15-04:30	0		10:15-10:30	0		16:15-16:30	0		22:15-22:30	0	
04:30-04:45	0		10:30-10:45	0		16:30-16:45	0		22:30-22:45	0	
04:45-05:00	0	( 0)	10:45-11:00	43	( 43)	16:45-17:00	0	( 210)	22:45-23:00	0	( 210)
05:00-05:15	0		11:00-11:15	62		17:00-17:15	0		23:00-23:15	0	
05:15-05:30	0		11:15-11:30	40		17:15-17:30	0		23:15-23:30	0	
05:30-05:45	0		11:30-11:45	26		17:30-17:45	0		23:30-23:45	0	
05:45-06:00	0	( 0)	11:45-12:00	39	( 210)	17:45-18:00	0	( 210)	23:45-24:00	0	( 210)

AM PEAK HIGHEST HOUR VOLUME: 171  
 AM PEAK HOUR STARTING TIME: 10:45

PM PEAK HIGHEST HOUR VOLUME: 0  
 PM PEAK HOUR STARTING TIME:

DAILY TOTAL: 210

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90  
 WEATHER: CLEAR  
 LOCATION: NORTHBOUND EXIT TO DEL MAR AND FR  
 TUBE NUMBER: This is 1 of 2 TUBES

SITE NO:  
 DIRECTION OF FLOW: NORTHBOUND EXIT TO DEL MAR  
 DAY # 1  
 DATA FILE: DM12.001

TIME	HOURLY VOLUME	TIME	HOURLY VOLUME	TIME	HOURLY VOLUME	TIME	HOURLY VOLUME
00:00-00:15	83	06:00-06:15	93	*12:00-12:15	416	*18:00-18:15	479
00:15-00:30	76	06:15-06:30	139	*12:15-12:30	324	*18:15-18:30	488
00:30-00:45	65	06:30-06:45	216	*12:30-12:45	386	*18:30-18:45	425
00:45-01:00	60	06:45-07:00	283	*12:45-13:00	434	*18:45-19:00	447
	284 ( 284)		731 (1741)		1560 (10637)		1839 (21263)
01:00-01:15	30	07:00-07:15	259	*13:00-13:15	415	*19:00-19:15	409
01:15-01:30	50	07:15-07:30	325	*13:15-13:30	400	*19:15-19:30	366
01:30-01:45	18	07:30-07:45	550	*13:30-13:45	353	*19:30-19:45	297
01:45-02:00	32	07:45-08:00	624	*13:45-14:00	373	*19:45-20:00	243
	130 ( 414)		1758 (3499)		1541 (12178)		1315 (22578)
02:00-02:15	35	08:00-08:15	576	*14:00-14:15	426	*20:00-20:15	300
02:15-02:30	45	08:15-08:30	399	*14:15-14:30	399	*20:15-20:30	280
02:30-02:45	27	08:30-08:45	433	*14:30-14:45	383	*20:30-20:45	301
02:45-03:00	21	08:45-09:00	477	*14:45-15:00	423	*20:45-21:00	237
	128 ( 542)		1885 (5384)		1631 (13809)		1118 (23696)
03:00-03:15	31	09:00-09:15	308	*15:00-15:15	538	*21:00-21:15	291
03:15-03:30	34	09:15-09:30	313	*15:15-15:30	487	*21:15-21:30	256
03:30-03:45	15	09:30-09:45	341	*15:30-15:45	418	*21:30-21:45	299
03:45-04:00	40	09:45-10:00	280	*15:45-16:00	393	*21:45-22:00	260
	120 ( 662)		1242 (6626)		1836 (15645)		1106 (24802)
04:00-04:15	14	10:00-10:15	258	*16:00-16:15	427	*22:00-22:15	205
04:15-04:30	33	*10:15-10:30	324	*16:15-16:30	420	*22:15-22:30	187
04:30-04:45	29	*10:30-10:45	268	*16:30-16:45	440	*22:30-22:45	180
04:45-05:00	37	*10:45-11:00	280	*16:45-17:00	440	*22:45-23:00	146
	113 ( 775)		1130 (7756)		1727 (17372)		718 (25520)
05:00-05:15	40	*11:00-11:15	296	*17:00-17:15	546	*23:00-23:15	138
05:15-05:30	43	*11:15-11:30	315	*17:15-17:30	514	*23:15-23:30	124
05:30-05:45	60	*11:30-11:45	324	*17:30-17:45	504	*23:30-23:45	114
05:45-06:00	92	*11:45-12:00	386	*17:45-18:00	488	*23:45-24:00	111
	235 (1010)		1321 (9077)		2052 (19424)		487 (26007)

AM PEAK HIGHEST HOUR VOLUME: 2149  
 AM PEAK HOUR STARTING TIME: 07:30

PM PEAK HIGHEST HOUR VOLUME: 2052  
 PM PEAK HOUR STARTING TIME: 17:00

DAILY TOTAL: 26007

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90  
 WEATHER: CLEAR  
 LOCATION: NORTHBOUND I35 MAINLANES AT DEL MAR  
 TUBE NUMBER: This is 1 of 1 TUBES

SITE NO:  
 DIRECTION OF FLOW: NORTHBOUND N OF DEL MAR EXIT  
 DAY # 2  
 DATA FILE: DM11.002

HOURLY		HOURLY		HOURLY		HOURLY	
TIME	VOLUME	TIME	VOLUME	TIME	VOLUME	TIME	VOLUME
00:00-00:15	0	06:00-06:15	0	12:00-12:15	0	18:00-18:15	0
00:15-00:30	0	06:15-06:30	0	12:15-12:30	196	18:15-18:30	0
00:30-00:45	0	06:30-06:45	0	12:30-12:45	152	18:30-18:45	0
00:45-01:00	0	06:45-07:00	0	12:45-13:00	0	18:45-19:00	0
	( 0)		( 0)		( 348)		( 348)
01:00-01:15	0	07:00-07:15	0	13:00-13:15	0	19:00-19:15	0
01:15-01:30	0	07:15-07:30	0	13:15-13:30	0	19:15-19:30	0
01:30-01:45	0	07:30-07:45	0	13:30-13:45	0	19:30-19:45	0
01:45-02:00	0	07:45-08:00	0	13:45-14:00	0	19:45-20:00	0
	( 0)		( 0)		( 348)		( 348)
02:00-02:15	0	08:00-08:15	0	14:00-14:15	0	20:00-20:15	0
02:15-02:30	0	08:15-08:30	0	14:15-14:30	0	20:15-20:30	0
02:30-02:45	0	08:30-08:45	0	14:30-14:45	0	20:30-20:45	0
02:45-03:00	0	08:45-09:00	0	14:45-15:00	0	20:45-21:00	0
	( 0)		( 0)		( 348)		( 348)
03:00-03:15	0	09:00-09:15	0	15:00-15:15	0	21:00-21:15	0
03:15-03:30	0	09:15-09:30	0	15:15-15:30	0	21:15-21:30	0
03:30-03:45	0	09:30-09:45	0	15:30-15:45	0	21:30-21:45	0
03:45-04:00	0	09:45-10:00	0	15:45-16:00	0	21:45-22:00	0
	( 0)		( 0)		( 348)		( 348)
04:00-04:15	0	10:00-10:15	0	16:00-16:15	0	22:00-22:15	0
04:15-04:30	0	10:15-10:30	0	16:15-16:30	0	22:15-22:30	0
04:30-04:45	0	10:30-10:45	0	16:30-16:45	0	22:30-22:45	0
04:45-05:00	0	10:45-11:00	0	16:45-17:00	0	22:45-23:00	0
	( 0)		( 0)		( 348)		( 348)
05:00-05:15	0	11:00-11:15	0	17:00-17:15	0	23:00-23:15	0
05:15-05:30	0	11:15-11:30	0	17:15-17:30	0	23:15-23:30	0
05:30-05:45	0	11:30-11:45	0	17:30-17:45	0	23:30-23:45	0
05:45-06:00	0	11:45-12:00	0	17:45-18:00	0	23:45-24:00	0
	( 0)		( 0)		( 348)		( 348)

AM PEAK HIGHEST HOUR VOLUME: 0  
 AM PEAK HOUR STARTING TIME:

PM PEAK HIGHEST HOUR VOLUME: 348  
 PM PEAK HOUR STARTING TIME: 12:00

DAILY TOTAL: 348

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90  
 WEATHER: CLEAR  
 LOCATION: NORTHBOUND EXIT TO DEL MAR AND FR  
 TUBE NUMBER: This is 2 of 2 TUBES

SITE NO:  
 DIRECTION OF FLOW: NORTHBOUND FR S OF EXIT  
 DAY # 1  
 DATA FILE: DM12.001

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	14		06:00-06:15	44		*12:00-12:15	240		*18:00-18:15	235	
00:15-00:30	33		06:15-06:30	44		*12:15-12:30	211		*18:15-18:30	214	
00:30-00:45	8		06:30-06:45	54		*12:30-12:45	164		*18:30-18:45	256	
00:45-01:00	12	67 ( 67)	06:45-07:00	67	209 ( 469)	*12:45-13:00	230	845 (4357)	*18:45-19:00	203	908 (9298)
01:00-01:15	6		07:00-07:15	63		*13:00-13:15	227		*19:00-19:15	171	
01:15-01:30	18		07:15-07:30	134		*13:15-13:30	204		*19:15-19:30	127	
01:30-01:45	8		07:30-07:45	203		*13:30-13:45	208		*19:30-19:45	119	
01:45-02:00	16	48 ( 115)	07:45-08:00	179	579 (1048)	*13:45-14:00	204	843 (5200)	*19:45-20:00	124	541 (9839)
02:00-02:15	12		08:00-08:15	184		*14:00-14:15	161		*20:00-20:15	130	
02:15-02:30	2		08:15-08:30	176		*14:15-14:30	177		*20:15-20:30	129	
02:30-02:45	6		08:30-08:45	200		*14:30-14:45	177		*20:30-20:45	111	
02:45-03:00	7	27 ( 142)	08:45-09:00	173	733 (1781)	*14:45-15:00	206	721 (5921)	*20:45-21:00	111	481 (10320)
03:00-03:15	3		09:00-09:15	166		*15:00-15:15	200		*21:00-21:15	137	
03:15-03:30	8		09:15-09:30	92		*15:15-15:30	204		*21:15-21:30	114	
03:30-03:45	12		09:30-09:45	143		*15:30-15:45	181		*21:30-21:45	90	
03:45-04:00	6	29 ( 171)	09:45-10:00	134	535 (2316)	*15:45-16:00	214	799 (6720)	*21:45-22:00	92	433 (10753)
04:00-04:15	4		10:00-10:15	128		*16:00-16:15	177		*22:00-22:15	78	
04:15-04:30	4		*10:15-10:30	123		*16:15-16:30	208		*22:15-22:30	72	
04:30-04:45	6		*10:30-10:45	164		*16:30-16:45	177		*22:30-22:45	52	
04:45-05:00	8	22 ( 193)	*10:45-11:00	149	564 (2880)	*16:45-17:00	208	770 (7490)	*22:45-23:00	33	235 (10988)
05:00-05:15	6		*11:00-11:15	132		*17:00-17:15	223		*23:00-23:15	56	
05:15-05:30	15		*11:15-11:30	151		*17:15-17:30	231		*23:15-23:30	35	
05:30-05:45	18		*11:30-11:45	176		*17:30-17:45	223		*23:30-23:45	40	
05:45-06:00	28	67 ( 260)	*11:45-12:00	173	632 (3512)	*17:45-18:00	223	900 (8390)	*23:45-24:00	49	180 (11168)

AM PEAK HIGHEST HOUR VOLUME: 742  
 AM PEAK HOUR STARTING TIME: 07:30

PM PEAK HIGHEST HOUR VOLUME: 928  
 PM PEAK HOUR STARTING TIME: 17:45

DAILY TOTAL: 11168

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90  
 WEATHER: CLEAR  
 LOCATION: NORTHBOUND EXIT TO DEL MAR AND FR  
 TUBE NUMBER: This is 1 of 2 TUBES

SITE NO:  
 DIRECTION OF FLOW: NORTHBOUND EXIT TO DEL MAR  
 DAY # 2  
 DATA FILE: DM12.001

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	0		06:00-06:15	0		12:00-12:15	0		18:00-18:15	0	
00:15-00:30	0		06:15-06:30	0		12:15-12:30	0		18:15-18:30	0	
00:30-00:45	0		06:30-06:45	0		12:30-12:45	0		18:30-18:45	0	
00:45-01:00	0	0	06:45-07:00	0	0	12:45-13:00	0	0	18:45-19:00	0	0
		( 0)			( 0)			(2121)			(2121)
01:00-01:15	0		07:00-07:15	0		13:00-13:15	0		19:00-19:15	0	
01:15-01:30	0		07:15-07:30	0		13:15-13:30	0		19:15-19:30	0	
01:30-01:45	0		07:30-07:45	0		13:30-13:45	0		19:30-19:45	0	
01:45-02:00	0	0	07:45-08:00	0	0	13:45-14:00	0	0	19:45-20:00	0	0
		( 0)			( 0)			(2121)			(2121)
02:00-02:15	0		08:00-08:15	0		14:00-14:15	0		20:00-20:15	0	
02:15-02:30	0		08:15-08:30	0		14:15-14:30	0		20:15-20:30	0	
02:30-02:45	0		08:30-08:45	0		14:30-14:45	0		20:30-20:45	0	
02:45-03:00	0	0	08:45-09:00	0	0	14:45-15:00	0	0	20:45-21:00	0	0
		( 0)			( 0)			(2121)			(2121)
03:00-03:15	0		09:00-09:15	0		15:00-15:15	0		21:00-21:15	0	
03:15-03:30	0		09:15-09:30	0		15:15-15:30	0		21:15-21:30	0	
03:30-03:45	0		09:30-09:45	0		15:30-15:45	0		21:30-21:45	0	
03:45-04:00	0	0	09:45-10:00	0	0	15:45-16:00	0	0	21:45-22:00	0	0
		( 0)			( 0)			(2121)			(2121)
04:00-04:15	0		10:00-10:15	0		16:00-16:15	0		22:00-22:15	0	
04:15-04:30	0		10:15-10:30	245		16:15-16:30	0		22:15-22:30	0	
04:30-04:45	0		10:30-10:45	306		16:30-16:45	0		22:30-22:45	0	
04:45-05:00	0	0	10:45-11:00	267	818	16:45-17:00	0	0	22:45-23:00	0	0
		( 0)			( 818)			(2121)			(2121)
05:00-05:15	0		11:00-11:15	288		17:00-17:15	0		23:00-23:15	0	
05:15-05:30	0		11:15-11:30	368		17:15-17:30	0		23:15-23:30	0	
05:30-05:45	0		11:30-11:45	313		17:30-17:45	0		23:30-23:45	0	
05:45-06:00	0	0	11:45-12:00	334	1303	17:45-18:00	0	0	23:45-24:00	0	0
		( 0)			(2121)			(2121)			(2121)

AM PEAK HIGHEST HOUR VOLUME: 1303  
 AM PEAK HOUR STARTING TIME: 11:00

PM PEAK HIGHEST HOUR VOLUME: 0  
 PM PEAK HOUR STARTING TIME:

DAILY TOTAL: 2121

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90

WEATHER: CLEAR

LOCATION: DEL MAR WESTBOUND EASTSIDE OF INTERCHANGE

TUBE NUMBER: This is 1 of 1 TUBES

SITE NO:

DIRECTION OF FLOW: WESTBOUND DEL MAR

DAY # 1

DATA FILE: DM13.003

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	32		06:00-06:15	54		*12:00-12:15	227		*18:00-18:15	245	
00:15-00:30	35		06:15-06:30	88		*12:15-12:30	170		*18:15-18:30	276	
00:30-00:45	28		06:30-06:45	104		*12:30-12:45	196		*18:30-18:45	215	
00:45-01:00	16	111 ( 111)	06:45-07:00	190	436 ( 826)	*12:45-13:00	272	865 (7535)	*18:45-19:00	203	939 (13762)
01:00-01:15	18		07:00-07:15	201		*13:00-13:15	237		*19:00-19:15	197	
01:15-01:30	11		07:15-07:30	356		*13:15-13:30	207		*19:15-19:30	146	
01:30-01:45	18		07:30-07:45	495		*13:30-13:45	190		*19:30-19:45	190	
01:45-02:00	4	51 ( 162)	07:45-08:00	566	1618 (2444)	*13:45-14:00	237	871 (8406)	*19:45-20:00	129	662 (14424)
02:00-02:15	10		08:00-08:15	443		*14:00-14:15	205		*20:00-20:15	174	
02:15-02:30	18		08:15-08:30	406		*14:15-14:30	198		*20:15-20:30	118	
02:30-02:45	8		08:30-08:45	339		*14:30-14:45	198		*20:30-20:45	115	
02:45-03:00	2	38 ( 200)	08:45-09:00	381	1569 (4013)	*14:45-15:00	203	804 (9210)	*20:45-21:00	112	519 (14943)
03:00-03:15	0		09:00-09:15	251		*15:00-15:15	284		*21:00-21:15	117	
03:15-03:30	4		09:15-09:30	316		*15:15-15:30	264		*21:15-21:30	78	
03:30-03:45	11		09:30-09:45	191		*15:30-15:45	296		*21:30-21:45	117	
03:45-04:00	4	19 ( 219)	09:45-10:00	251	1009 (5022)	*15:45-16:00	351	1195 (10405)	*21:45-22:00	72	384 (15327)
04:00-04:15	8		10:00-10:15	199		*16:00-16:15	322		*22:00-22:15	109	
04:15-04:30	9		10:15-10:30	202		*16:15-16:30	289		*22:15-22:30	71	
04:30-04:45	14		*10:30-10:45	195		*16:30-16:45	397		*22:30-22:45	59	
04:45-05:00	6	37 ( 256)	*10:45-11:00	169	765 (5787)	*16:45-17:00	295	1303 (11708)	*22:45-23:00	53	292 (15619)
05:00-05:15	13		*11:00-11:15	222		*17:00-17:15	301		*23:00-23:15	53	
05:15-05:30	21		*11:15-11:30	217		*17:15-17:30	241		*23:15-23:30	32	
05:30-05:45	43		*11:30-11:45	195		*17:30-17:45	307		*23:30-23:45	33	
05:45-06:00	57	134 ( 390)	*11:45-12:00	249	883 (6670)	*17:45-18:00	266	1115 (12823)	*23:45-24:00	28	146 (15765)

AM PEAK HIGHEST HOUR VOLUME: 1910  
AM PEAK HOUR STARTING TIME: 07:30

PM PEAK HIGHEST HOUR VOLUME: 1359  
PM PEAK HOUR STARTING TIME: 15:45

DAILY TOTAL: 15765

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90  
 WEATHER: CLEAR  
 LOCATION: NORTHBOUND EXIT TO DEL MAR AND FR  
 TUBE NUMBER: This is 2 of 2 TUBES

SITE NO:  
 DIRECTION OF FLOW: NORTHBOUND FR S OF EXIT  
 DAY # 2  
 DATA FILE: DM12.001

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	0		06:00-06:15	0		12:00-12:15	0		18:00-18:15	0	
00:15-00:30	0		06:15-06:30	0		12:15-12:30	0		18:15-18:30	0	
00:30-00:45	0		06:30-06:45	0		12:30-12:45	0		18:30-18:45	0	
00:45-01:00	0	0	06:45-07:00	0	0	12:45-13:00	0	0	18:45-19:00	0	0
		( 0)			( 0)			(1461)			(1461)
01:00-01:15	0		07:00-07:15	0		13:00-13:15	0		19:00-19:15	0	
01:15-01:30	0		07:15-07:30	0		13:15-13:30	0		19:15-19:30	0	
01:30-01:45	0		07:30-07:45	0		13:30-13:45	0		19:30-19:45	0	
01:45-02:00	0	0	07:45-08:00	0	0	13:45-14:00	0	0	19:45-20:00	0	0
		( 0)			( 0)			(1461)			(1461)
02:00-02:15	0		08:00-08:15	0		14:00-14:15	0		20:00-20:15	0	
02:15-02:30	0		08:15-08:30	0		14:15-14:30	0		20:15-20:30	0	
02:30-02:45	0		08:30-08:45	0		14:30-14:45	0		20:30-20:45	0	
02:45-03:00	0	0	08:45-09:00	0	0	14:45-15:00	0	0	20:45-21:00	0	0
		( 0)			( 0)			(1461)			(1461)
03:00-03:15	0		09:00-09:15	0		15:00-15:15	0		21:00-21:15	0	
03:15-03:30	0		09:15-09:30	0		15:15-15:30	0		21:15-21:30	0	
03:30-03:45	0		09:30-09:45	0		15:30-15:45	0		21:30-21:45	0	
03:45-04:00	0	0	09:45-10:00	0	0	15:45-16:00	0	0	21:45-22:00	0	0
		( 0)			( 0)			(1461)			(1461)
04:00-04:15	0		10:00-10:15	0		16:00-16:15	0		22:00-22:15	0	
04:15-04:30	0		10:15-10:30	143		16:15-16:30	0		22:15-22:30	0	
04:30-04:45	0		10:30-10:45	146		16:30-16:45	0		22:30-22:45	0	
04:45-05:00	0	0	10:45-11:00	132	421	16:45-17:00	0	0	22:45-23:00	0	0
		( 0)			( 421)			(1461)			(1461)
05:00-05:15	0		11:00-11:15	189		17:00-17:15	0		23:00-23:15	0	
05:15-05:30	0		11:15-11:30	288		17:15-17:30	0		23:15-23:30	0	
05:30-05:45	0		11:30-11:45	285		17:30-17:45	0		23:30-23:45	0	
05:45-06:00	0	0	11:45-12:00	278	1040	17:45-18:00	0	0	23:45-24:00	0	0
		( 0)			(1461)			(1461)			(1461)

AM PEAK HIGHEST HOUR VOLUME: 1040  
 AM PEAK HOUR STARTING TIME: 11:00

PM PEAK HIGHEST HOUR VOLUME: 0  
 PM PEAK HOUR STARTING TIME:

DAILY TOTAL: 1461

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90

WEATHER: CLEAR

LOCATION: WESTBOUND DEL MAR EAST SIDE OF INTERCHANGE

TUBE NUMBER: This is 1 of 1 TUBES

SITE NO:

DIRECTION OF FLOW: EASTBOUND DEL MAR

DAY # 1

DATA FILE: DM14.013

TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME	TIME	VOLUME	HOURLY VOLUME
00:00-00:15	54		06:00-06:15	52		*12:00-12:15	318		*18:00-18:15	375	
00:15-00:30	40		06:15-06:30	76		*12:15-12:30	275		*18:15-18:30	419	
00:30-00:45	42		06:30-06:45	90		*12:30-12:45	267		*18:30-18:45	392	
00:45-01:00	34	170	06:45-07:00	101	319	*12:45-13:00	264	1124	*18:45-19:00	380	1566
		( 170)			( 788)			(6538)			(14449)
01:00-01:15	24		07:00-07:15	117		*13:00-13:15	305		*19:00-19:15	333	
01:15-01:30	32		07:15-07:30	247		*13:15-13:30	296		*19:15-19:30	309	
01:30-01:45	10		07:30-07:45	419		*13:30-13:45	242		*19:30-19:45	286	
01:45-02:00	24	90	07:45-08:00	423	1206	*13:45-14:00	236	1079	*19:45-20:00	195	1123
		( 260)			(1994)			(7617)			(15572)
02:00-02:15	12		08:00-08:15	382		*14:00-14:15	269		*20:00-20:15	221	
02:15-02:30	12		08:15-08:30	253		*14:15-14:30	267		*20:15-20:30	216	
02:30-02:45	8		08:30-08:45	185		*14:30-14:45	255		*20:30-20:45	199	
02:45-03:00	8	40	08:45-09:00	210	1030	*14:45-15:00	289	1080	*20:45-21:00	162	798
		( 300)			(3024)			(8697)			(16370)
03:00-03:15	14		09:00-09:15	191		*15:00-15:15	395		*21:00-21:15	220	
03:15-03:30	8		09:15-09:30	192		*15:15-15:30	346		*21:15-21:30	167	
03:30-03:45	4		09:30-09:45	219		*15:30-15:45	317		*21:30-21:45	200	
03:45-04:00	10	36	09:45-10:00	173	775	*15:45-16:00	306	1364	*21:45-22:00	182	769
		( 336)			(3799)			(10061)			(17139)
04:00-04:15	8		10:00-10:15	174		*16:00-16:15	264		*22:00-22:15	140	
04:15-04:30	6		10:15-10:30	198		*16:15-16:30	279		*22:15-22:30	121	
04:30-04:45	6		*10:30-10:45	217		*16:30-16:45	293		*22:30-22:45	102	
04:45-05:00	8	28	*10:45-11:00	195	784	*16:45-17:00	348	1184	*22:45-23:00	66	429
		( 364)			(4583)			(11245)			(17568)
05:00-05:15	14		*11:00-11:15	217		*17:00-17:15	403		*23:00-23:15	91	
05:15-05:30	27		*11:15-11:30	178		*17:15-17:30	443		*23:15-23:30	70	
05:30-05:45	30		*11:30-11:45	209		*17:30-17:45	420		*23:30-23:45	77	
05:45-06:00	34	105	*11:45-12:00	227	831	*17:45-18:00	372	1638	*23:45-24:00	76	314
		( 469)			(5414)			(12883)			(17882)

AM PEAK HIGHEST HOUR VOLUME: 1477  
 AM PEAK HOUR STARTING TIME: 07:30

PM PEAK HIGHEST HOUR VOLUME: 1638  
 PM PEAK HOUR STARTING TIME: 17:00

DAILY TOTAL: 17882



TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90  
 WEATHER: CLEAR  
 LOCATION: DEL MAR WESTBOUND EASTSIDE OF INTERCHANGE  
 TUBE NUMBER: This is 1 of 1 TUBES

SITE NO:  
 DIRECTION OF FLOW: WESTBOUND DEL MAR  
 DAY # 2  
 DATA FILE: DM13.003

HOURLY		HOURLY		HOURLY		HOURLY	
TIME	VOLUME	TIME	VOLUME	TIME	VOLUME	TIME	VOLUME
00:00-00:15	0	06:00-06:15	0	12:00-12:15	0	18:00-18:15	0
00:15-00:30	0	06:15-06:30	0	12:15-12:30	0	18:15-18:30	0
00:30-00:45	0	06:30-06:45	0	12:30-12:45	0	18:30-18:45	0
00:45-01:00	0	06:45-07:00	0	12:45-13:00	0	18:45-19:00	0
	( 0)		( 0)		(1190)		(1190)
01:00-01:15	0	07:00-07:15	0	13:00-13:15	0	19:00-19:15	0
01:15-01:30	0	07:15-07:30	0	13:15-13:30	0	19:15-19:30	0
01:30-01:45	0	07:30-07:45	0	13:30-13:45	0	19:30-19:45	0
01:45-02:00	0	07:45-08:00	0	13:45-14:00	0	19:45-20:00	0
	( 0)		( 0)		(1190)		(1190)
02:00-02:15	0	08:00-08:15	0	14:00-14:15	0	20:00-20:15	0
02:15-02:30	0	08:15-08:30	0	14:15-14:30	0	20:15-20:30	0
02:30-02:45	0	08:30-08:45	0	14:30-14:45	0	20:30-20:45	0
02:45-03:00	0	08:45-09:00	0	14:45-15:00	0	20:45-21:00	0
	( 0)		( 0)		(1190)		(1190)
03:00-03:15	0	09:00-09:15	0	15:00-15:15	0	21:00-21:15	0
03:15-03:30	0	09:15-09:30	0	15:15-15:30	0	21:15-21:30	0
03:30-03:45	0	09:30-09:45	0	15:30-15:45	0	21:30-21:45	0
03:45-04:00	0	09:45-10:00	0	15:45-16:00	0	21:45-22:00	0
	( 0)		( 0)		(1190)		(1190)
04:00-04:15	0	10:00-10:15	0	16:00-16:15	0	22:00-22:15	0
04:15-04:30	0	10:15-10:30	0	16:15-16:30	0	22:15-22:30	0
04:30-04:45	0	10:30-10:45	219	16:30-16:45	0	22:30-22:45	0
04:45-05:00	0	10:45-11:00	198	16:45-17:00	0	22:45-23:00	0
	( 0)		( 417)		(1190)		(1190)
05:00-05:15	0	11:00-11:15	192	17:00-17:15	0	23:00-23:15	0
05:15-05:30	0	11:15-11:30	185	17:15-17:30	0	23:15-23:30	0
05:30-05:45	0	11:30-11:45	187	17:30-17:45	0	23:30-23:45	0
05:45-06:00	0	11:45-12:00	209	17:45-18:00	0	23:45-24:00	0
	( 0)		(1190)		(1190)		(1190)

AM PEAK HIGHEST HOUR VOLUME: 794  
 AM PEAK HOUR STARTING TIME: 10:30

PM PEAK HIGHEST HOUR VOLUME: 0  
 PM PEAK HOUR STARTING TIME:

DAILY TOTAL: 1190

TEXAS TRANSPORTATION INSTITUTE

VOLUME COUNT

START DATE: 14/11/90  
 WEATHER: CLEAR  
 LOCATION: WESTBOUND DEL MAR EAST SIDE OF INTERCHANGE  
 TUBE NUMBER: This is 1 of 1 TUBES

SITE NO:  
 DIRECTION OF FLOW: EASTBOUND DEL MAR  
 DAY # 2  
 DATA FILE: DM14.013

TIME	HOURLY VOLUME	TIME	HOURLY VOLUME	TIME	HOURLY VOLUME	TIME	HOURLY VOLUME
00:00-00:15	0	06:00-06:15	0	12:00-12:15	0	18:00-18:15	0
00:15-00:30	0	06:15-06:30	0	12:15-12:30	0	18:15-18:30	0
00:30-00:45	0	06:30-06:45	0	12:30-12:45	0	18:30-18:45	0
00:45-01:00	0	06:45-07:00	0	12:45-13:00	0	18:45-19:00	0
	( 0)		( 0)		(1146)		(1146)
01:00-01:15	0	07:00-07:15	0	13:00-13:15	0	19:00-19:15	0
01:15-01:30	0	07:15-07:30	0	13:15-13:30	0	19:15-19:30	0
01:30-01:45	0	07:30-07:45	0	13:30-13:45	0	19:30-19:45	0
01:45-02:00	0	07:45-08:00	0	13:45-14:00	0	19:45-20:00	0
	( 0)		( 0)		(1146)		(1146)
02:00-02:15	0	08:00-08:15	0	14:00-14:15	0	20:00-20:15	0
02:15-02:30	0	08:15-08:30	0	14:15-14:30	0	20:15-20:30	0
02:30-02:45	0	08:30-08:45	0	14:30-14:45	0	20:30-20:45	0
02:45-03:00	0	08:45-09:00	0	14:45-15:00	0	20:45-21:00	0
	( 0)		( 0)		(1146)		(1146)
03:00-03:15	0	09:00-09:15	0	15:00-15:15	0	21:00-21:15	0
03:15-03:30	0	09:15-09:30	0	15:15-15:30	0	21:15-21:30	0
03:30-03:45	0	09:30-09:45	0	15:30-15:45	0	21:30-21:45	0
03:45-04:00	0	09:45-10:00	0	15:45-16:00	0	21:45-22:00	0
	( 0)		( 0)		(1146)		(1146)
04:00-04:15	0	10:00-10:15	0	16:00-16:15	0	22:00-22:15	0
04:15-04:30	0	10:15-10:30	0	16:15-16:30	0	22:15-22:30	0
04:30-04:45	0	10:30-10:45	176	16:30-16:45	0	22:30-22:45	0
04:45-05:00	0	10:45-11:00	166	16:45-17:00	0	22:45-23:00	0
	( 0)		( 342)		(1146)		(1146)
05:00-05:15	0	11:00-11:15	176	17:00-17:15	0	23:00-23:15	0
05:15-05:30	0	11:15-11:30	187	17:15-17:30	0	23:15-23:30	0
05:30-05:45	0	11:30-11:45	187	17:30-17:45	0	23:30-23:45	0
05:45-06:00	0	11:45-12:00	254	17:45-18:00	0	23:45-24:00	0
	( 0)		(1146)		(1146)		(1146)

AM PEAK HIGHEST HOUR VOLUME: 804  
 AM PEAK HOUR STARTING TIME: 11:00

PM PEAK HIGHEST HOUR VOLUME: 0  
 PM PEAK HOUR STARTING TIME:

DAILY TOTAL: 1146

**Appendix B**  
**Benefit/Cost Analysis**



Net Present Worth Estimates

Analysis Period: 20  
 Design Year: 2011  
 Project: Laredo (Del Mar Boulevard Interchange)  
 Alternative: 1A

Input Assumptions:

Discount Rates:	4% (Standard)	Initial Costs:	\$2,700,800
	10% (FHWA)	Saving Growth Rate:	7.70%
Rate/Person-Hr.:	\$9.76		
Occupancy Rate:	1.25		
Percent Trucks:	25%		

Travel Delay (Existing Conditions)

Vehicle-Hours	Daily	Annual	
Delay Base Year:	211	52,750	
Delay Design Year:	4132	1,033,000	

Travel Delay (Alternative 1A)

Vehicle-Hours	Daily	Annual	
Delay Base Year:	167	41,750	
Delay Design Year:	3938	984,500	

---

Year	Annual Delay Savings (Vehicle-Hrs)	Annual Savings Person-Hrs. (Dollars)
Base	11,000	\$127,490
2	11,847	\$137,307
3	12,759	\$147,881
4	13,742	\$159,268
5	14,800	\$171,532
6	15,940	\$184,741
7	17,167	\$198,967
8	18,489	\$214,288
9	19,913	\$230,789
10	21,446	\$248,561
11	23,098	\$267,701
12	24,876	\$288,316
13	26,792	\$310,517
14	28,855	\$334,428
15	31,077	\$360,181
16	33,470	\$387,916
17	36,047	\$417,787
18	38,823	\$449,959
19	41,813	\$484,608
20	45,032	\$521,925

Net Present Worth (4%) \$3,487,482  
 Net Present Worth (10%) \$1,910,586

Summary--Benefit/Cost Analysis (Net Present Value)

Discount Rate:	4%	10%
Person-Hours:	\$3,487,482	\$1,910,586
Costs:	\$2,700,800	\$2,700,800
B/C Ratio:	1.29	0.71

Net Present Worth Estimates

Analysis Period: 20  
 Design Year: 2011  
 Project: Laredo (Del Mar Boulevard Interchange)  
 Alternative: 1B

Input Assumptions:

Discount Rates:	4% (Standard)	Initial Costs:	\$3,010,400
	10% (FHWA)	Saving Growth Rate:	16.94%
Rate/Person-Hr.:	\$9.76		
Occupancy Rate:	1.25		
Percent Trucks:	25%		

Travel Delay (Existing Conditions)

Vehicle-Hours	Daily	Annual
Delay Base Year:	211	52,750
Delay Design Year:	4132	1,033,000

Travel Delay (Alternative 1B)

Vehicle-Hours	Daily	Annual
Delay Base Year:	111	27,750
Delay Design Year:	1845	461,250

---

Year	Annual Delay Savings (Vehicle-Hrs)	Annual Savings Person-Hrs. (Dollars)
Base	25,000	\$289,750
2	26,925	\$312,062
3	28,998	\$336,092
4	31,231	\$361,973
5	33,636	\$389,846
6	36,227	\$419,866
7	39,016	\$452,198
8	42,021	\$487,019
9	45,256	\$524,521
10	48,741	\$564,912
11	52,495	\$608,412
12	56,537	\$655,263
13	60,890	\$705,721
14	65,579	\$760,064
15	70,629	\$818,593
16	76,068	\$881,628
17	81,926	\$949,517
18	88,234	\$1,022,634
19	95,029	\$1,101,381
20	102,346	\$1,186,192
Net Present Worth (4%)		\$7,926,095
Net Present Worth (10%)		\$4,342,241

Summary--Benefit/Cost Analysis (Net Present Value)

Discount Rate:	4%	10%
Person-Hours:	\$7,926,095	\$4,342,241
Costs:	\$3,010,400	\$3,010,400
B/C Ratio:	2.63	1.44

Net Present Worth Estimates

Analysis Period: 20  
 Design Year: 2011  
 Project: Laredo (Del Mar Boulevard Interchange)  
 Alternative: 1C

Input Assumptions:

Discount Rates:	4% (Standard)	Initial Costs:	\$3,608,200
	10% (FHWA)	Saving Growth Rate:	ERR
Rate/Person-Hr.:	\$9.76		
Occupancy Rate:	1.25		
Percent Trucks:	25%		

Travel Delay (Existing Conditions)

Vehicle-Hours	Daily	Annual
Delay Base Year:	211	52,750
Delay Design Year:	4132	1,033,000

Travel Delay (Alternative 1C)

Vehicle-Hours	Daily	Annual
Delay Base Year:	225	56,250
Delay Design Year:	1080	270,000

Year	Annual Delay Savings (Vehicle-Hrs)	Annual Savings Person-Hrs. (Dollars)
Base	(3,500)	(\$40,565)
2	(3,770)	(\$43,689)
3	(4,060)	(\$47,053)
4	(4,372)	(\$50,676)
5	(4,709)	(\$54,578)
6	(5,072)	(\$58,781)
7	(5,462)	(\$63,308)
8	(5,883)	(\$68,183)
9	(6,336)	(\$73,433)
10	(6,824)	(\$79,088)
11	(7,349)	(\$85,178)
12	(7,915)	(\$91,737)
13	(8,525)	(\$98,801)
14	(9,181)	(\$106,409)
15	(9,888)	(\$114,603)
16	(10,650)	(\$123,428)
17	(11,470)	(\$132,932)
18	(12,353)	(\$143,169)
19	(13,304)	(\$154,193)
20	(14,328)	(\$166,067)
Net Present Worth (4%)		(\$1,109,653)
Net Present Worth (10%)		(\$607,914)

Summary--Benefit/Cost Analysis (Net Present Value)

Discount Rate:	4%	10%
Person-Hours:	(\$1,109,653)	(\$607,914)
Costs:	\$3,608,200	\$3,608,200
B/C Ratio:	-0.31	-0.17

Net Present Worth Estimates

Analysis Period: 20  
 Design Year: 2011  
 Project: Laredo (Del Mar Boulevard Interchange)  
 Alternative: 2A Combined w/ 1A

Input Assumptions:

Discount Rates:	4% (Standard)	Initial Costs:	\$3,210,400
	10% (FHWA)	Saving Growth Rate:	15.28%
Rate/Person-Hr.:	\$9.76		
Occupancy Rate:	1.25		
Percent Trucks:	25%		

Travel Delay (Existing Conditions)

Vehicle-Hours	Daily	Annual	
Delay Base Year:	211	52,750	
Delay Design Year:	4132	1,033,000	

Travel Delay (Alternative 2A Combined w/1A)

Vehicle-Hours	Daily	Annual	
Delay Base Year:	134	33,500	
Delay Design Year:	2809	702,250	

---

Year	Annual Delay Savings (Vehicle-Hrs)	Annual Savings Person-Hrs. (Dollars)
Base	19,250	\$223,108
2	20,732	\$240,288
3	22,329	\$258,791
4	24,048	\$278,719
5	25,900	\$300,182
6	27,894	\$323,297
7	30,042	\$348,192
8	32,356	\$375,004
9	34,847	\$403,881
10	37,531	\$434,982
11	40,421	\$468,477
12	43,533	\$504,552
13	46,886	\$543,405
14	50,496	\$585,250
15	54,384	\$630,316
16	58,572	\$678,853
17	63,083	\$731,128
18	67,940	\$787,428
19	73,172	\$848,063
20	78,807	\$913,368

Net Present Worth (4%)	\$6,103,093
Net Present Worth (10%)	\$3,343,525

Summary--Benefit/Cost Analysis (Net Present Value)

Discount Rate:	4%	10%
Person-Hours:	\$6,103,093	\$3,343,525
Costs:	\$3,210,400	\$3,210,400
B/C Ratio:	1.90	1.04



Net Present Worth Estimates

Analysis Period: 20  
 Design Year: 2011  
 Project: Laredo (Del Mar Boulevard Interchange)  
 Alternative: 2A Combined w/ 1B

Input Assumptions:

Discount Rates:	4% (Standard)	Initial Costs:	\$3,520,000
	10% (FHWA)	Saving Growth Rate:	16.74%
Rate/Person-Hr.:	\$9.76		
Occupancy Rate:	1.25		
Percent Trucks:	25%		

Travel Delay (Existing Conditions)

Vehicle-Hours	Daily	Annual	
Delay Base Year:		211	52,750
Delay Design Year:		4132	1,033,000

Travel Delay (Alternative 2A Combined w/ 1B)

Vehicle-Hours	Daily	Annual	
Delay Base Year:		105	26,250
Delay Design Year:		1789	447,250

---

Year	Annual Delay Savings (Vehicle-Hrs)	Annual Savings Person-Hrs. (Dollars)
Base	26,500	\$307,135
2	28,541	\$330,786
3	30,738	\$356,258
4	33,105	\$383,691
5	35,655	\$413,237
6	38,400	\$445,058
7	41,357	\$479,329
8	44,542	\$516,240
9	47,972	\$555,992
10	51,666	\$598,806
11	55,644	\$644,917
12	59,929	\$694,578
13	64,544	\$748,064
14	69,514	\$805,668
15	74,867	\$867,708
16	80,632	\$934,525
17	86,841	\$1,006,488
18	93,528	\$1,083,992
19	100,730	\$1,167,464
20	108,487	\$1,257,364
Net Present Worth (4%)		\$8,401,660
Net Present Worth (10%)		\$4,602,775

Summary--Benefit/Cost Analysis (Net Present Value)

Discount Rate:	4%	10%
Person-Hours:	\$8,401,660	\$4,602,775
Costs:	\$3,520,000	\$3,520,000
B/C Ratio:	2.39	1.31

Net Present Worth Estimates

Analysis Period: 20  
 Design Year: 2011  
 Project: Laredo (Del Mar Boulevard Interchange)  
 Alternative: 2A Combined w/ 1C

Input Assumptions:

Discount Rates:	4% (Standard)	Initial Costs:	\$4,117,800
	10% (FHWA)	Saving Growth Rate:	ERR
Rate/Person-Hr.:	\$9.76		
Occupancy Rate:	1.25		
Percent Trucks:	25%		

Travel Delay (Existing Conditions)

Vehicle-Hours	Daily	Annual	
Delay Base Year:	211	52,750	
Delay Design Year:	4132	1,033,000	

Travel Delay (Alternative 2A Combined w/ 1C)

Vehicle-Hours	Daily	Annual	
Delay Base Year:	249	62,250	
Delay Design Year:	997	249,250	

---

Year	Annual Delay Savings (Vehicle-Hrs)	Annual Savings Person-Hrs. (Dollars)
Base	(9,500)	(\$110,105)
2	(10,232)	(\$118,584)
3	(11,019)	(\$127,715)
4	(11,868)	(\$137,550)
5	(12,782)	(\$148,142)
6	(13,766)	(\$159,549)
7	(14,826)	(\$171,835)
8	(15,968)	(\$185,067)
9	(17,197)	(\$199,318)
10	(18,522)	(\$214,666)
11	(19,948)	(\$231,197)
12	(21,484)	(\$249,000)
13	(23,138)	(\$268,174)
14	(24,920)	(\$288,824)
15	(26,839)	(\$311,065)
16	(28,906)	(\$335,019)
17	(31,132)	(\$360,816)
18	(33,529)	(\$388,601)
19	(36,111)	(\$418,525)
20	(38,892)	(\$450,753)
Net Present Worth (4%)		(\$3,011,916)
Net Present Worth (10%)		(\$1,650,051)

Summary--Benefit/Cost Analysis (Net Present Value)

Discount Rate:	4%	10%
Person-Hours:	(\$3,011,916)	(\$1,650,051)
Costs:	\$4,117,800	\$4,117,800
B/C Ratio:	-0.73	-0.40

Net Present Worth Estimates

Analysis Period: 20  
 Design Year: 2011  
 Project: Laredo (Del Mar Boulevard Interchange)  
 Alternative: 2B Combined w/1A

Input Assumptions:

Discount Rates:	4% (Standard)	Initial Costs:	\$7,890,600
	10% (FHWA)	Saving Growth Rate:	18.19%
Rate/Person-Hr.:	\$9.76		
Occupancy Rate:	1.25		
Percent Trucks:	25%		

Travel Delay (Existing Conditions)

Vehicle-Hours	Daily	Annual
Delay Base Year:	211	52,750
Delay Design Year:	4132	1,033,000

Travel Delay (Alternative 2B Combined w/ 1A)

Vehicle-Hours	Daily	Annual
Delay Base Year:	111	27,750
Delay Design Year:	1304	326,000

---

Year	Annual Delay Savings (Vehicle-Hrs)	Annual Savings Person-Hrs. (Dollars)
Base	25,000	\$289,750
2	26,925	\$312,062
3	28,998	\$336,092
4	31,231	\$361,973
5	33,636	\$389,846
6	36,227	\$419,866
7	39,016	\$452,198
8	42,021	\$487,019
9	45,256	\$524,521
10	48,741	\$564,912
11	52,495	\$608,412
12	56,537	\$655,263
13	60,890	\$705,721
14	65,579	\$760,064
15	70,629	\$818,593
16	76,068	\$881,628
17	81,926	\$949,517
18	88,234	\$1,022,634
19	95,029	\$1,101,381
20	102,346	\$1,186,192

Net Present Worth (4%) \$7,926,095  
 Net Present Worth (10%) \$4,342,241

Summary--Benefit/Cost Analysis (Net Present Value)

Discount Rate:	4%	10%
Person-Hours:	\$7,926,095	\$4,342,241
Costs:	\$7,890,600	\$7,890,600
B/C Ratio:	1.00	0.55

Net Present Worth Estimates

Analysis Period: 20  
 Design Year: 2011  
 Project: Laredo (Del Mar Boulevard Interchange)  
 Alternative: 2B Combined w/ 1B

Input Assumptions:

Discount Rates:	4% (Standard)	Initial Costs:	\$8,200,200
	10% (FHWA)	Saving Growth Rate:	17.09%
Rate/Person-Hr.:	\$9.76		
Occupancy Rate:	1.25		
Percent Trucks:	25%		

Travel Delay (Existing Conditions)

Vehicle-Hours	Daily	Annual
Delay Base Year:	211	52,750
Delay Design Year:	4132	1,033,000

Travel Delay (Alternative 2B Combined w/1B)

Vehicle-Hours	Daily	Annual
Delay Base Year:	89	22,250
Delay Design Year:	1271	317,750

---

Year	Annual Delay Savings (Vehicle-Hrs)	Annual Savings Person-Hrs. (Dollars)
Base	30,500	\$353,495
2	32,849	\$380,716
3	35,378	\$410,032
4	38,102	\$441,607
5	41,036	\$475,612
6	44,196	\$512,237
7	47,600	\$551,681
8	51,265	\$594,163
9	55,213	\$639,916
10	59,464	\$689,192
11	64,043	\$742,263
12	68,975	\$799,420
13	74,286	\$860,979
14	80,007	\$927,278
15	86,168	\$998,683
16	92,803	\$1,075,586
17	99,949	\$1,158,411
18	107,646	\$1,247,613
19	115,935	\$1,343,685
20	124,862	\$1,447,154
Net Present Worth (4%)		\$9,669,835
Net Present Worth (10%)		\$5,297,534

Summary--Benefit/Cost Analysis (Net Present Value)

Discount Rate:	4%	10%
Person-Hours:	\$9,669,835	\$5,297,534
Costs:	\$8,200,200	\$8,200,200
B/C Ratio:	1.18	0.65

Net Present Worth Estimates

Analysis Period: 20  
 Design Year: 2011  
 Project: Laredo (Del Mar Boulevard Interchange)  
 Alternative: 2B Combined W/ 1C

Input Assumptions:

Discount Rates: 4% (Standard)  
 10% (FHWA)  
 Rate/Person-Hr.: \$9.76  
 Occupancy Rate: 1.25  
 Percent Trucks: 25%

Initial Costs: \$8,798,000  
 Saving Growth Rate: ERR

Travel Delay (Existing Conditions)

Vehicle-Hours	Daily	Annual	
Delay Base Year:		211	52,750
Delay Design Year:		4132	1,033,000

Travel Delay (Alternative 2B Combined w/1C)

Vehicle-Hours	Daily	Annual	
Delay Base Year:		241	60,250
Delay Design Year:		515	128,750

---

Year	Annual Delay Savings (Vehicle-Hrs)	Annual Savings Person-Hrs. (Dollars)
Base	(7,500)	(\$86,925)
2	(8,078)	(\$93,619)
3	(8,700)	(\$100,828)
4	(9,369)	(\$108,592)
5	(10,091)	(\$116,954)
6	(10,868)	(\$125,960)
7	(11,705)	(\$135,659)
8	(12,606)	(\$146,106)
9	(13,577)	(\$157,356)
10	(14,622)	(\$169,473)
11	(15,748)	(\$182,524)
12	(16,961)	(\$196,579)
13	(18,267)	(\$211,716)
14	(19,674)	(\$228,019)
15	(21,189)	(\$245,578)
16	(22,820)	(\$264,488)
17	(24,578)	(\$284,855)
18	(26,470)	(\$306,790)
19	(28,509)	(\$330,414)
20	(30,704)	(\$355,858)

Net Present Worth (4%) (\$2,377,828)  
 Net Present Worth (10%) (\$1,302,672)

Summary--Benefit/Cost Analysis (Net Present Value)

Discount Rate:	4%	10%
Person-Hours:	(\$2,377,828)	(\$1,302,672)
Costs:	\$8,798,000	\$8,798,000
B/C Ratio:	-0.27	-0.15

Net Present Worth Estimates

Analysis Period: 20  
 Design Year: 2011  
 Project: Laredo (Del Mar Boulevard Interchange)  
 Alternative: 2C Combined w/1A

Input Assumptions:

Discount Rates:	4% (Standard)	Initial Costs:	\$12,202,000
	10% (FHWA)	Saving Growth Rate:	18.39%
Rate/Person-Hr.:	\$9.76		
Occupancy Rate:	1.25		
Percent Trucks:	25%		

Travel Delay (Existing Conditions)

Vehicle-Hours	Daily	Annual
Delay Base Year:	211	52,750
Delay Design Year:	4132	1,033,000

Travel Delay (Alternative 2C Combined w/1A)

Vehicle-Hours	Daily	Annual
Delay Base Year:	111	27,750
Delay Design Year:	1206	301,500

---

Year	Annual Delay Savings (Vehicle-Hrs)	Annual Savings Person-Hrs. (Dollars)
Base	25,000	\$289,750
2	26,925	\$312,062
3	28,998	\$336,092
4	31,231	\$361,973
5	33,636	\$389,846
6	36,227	\$419,866
7	39,016	\$452,198
8	42,021	\$487,019
9	45,256	\$524,521
10	48,741	\$564,912
11	52,495	\$608,412
12	56,537	\$655,263
13	60,890	\$705,721
14	65,579	\$760,064
15	70,629	\$818,593
16	76,068	\$881,628
17	81,926	\$949,517
18	88,234	\$1,022,634
19	95,029	\$1,101,381
20	102,346	\$1,186,192

Net Present Worth (4%) \$7,926,095  
 Net Present Worth (10%) \$4,342,241

Summary--Benefit/Cost Analysis (Net Present Value)

Discount Rate:	4%	10%
Person-Hours:	\$7,926,095	\$4,342,241
Costs:	\$12,202,000	\$12,202,000
B/C Ratio:	0.65	0.36

Net Present Worth Estimates

Analysis Period: 20  
 Design Year: 2011  
 Project: Laredo (Del Mar Boulevard Interchange)  
 Alternative: 2C Combined w/ 1B

Input Assumptions:

Discount Rates:	4% (Standard)	Initial Costs:	\$12,511,600
	10% (FHWA)	Saving Growth Rate:	17.31%
Rate/Person-Hr.:	\$9.76		
Occupancy Rate:	1.25		
Percent Trucks:	25%		

Travel Delay (Existing Conditions)

Vehicle-Hours	Daily	Annual
Delay Base Year:	211	52,750
Delay Design Year:	4132	1,033,000

Travel Delay (Alternative 2C Combined w/ 1B)

Vehicle-Hours	Daily	Annual
Delay Base Year:	92	23,000
Delay Design Year:	1231	307,750

---

Year	Annual Delay Savings (Vehicle-Hrs)	Annual Savings Person-Hrs. (Dollars)
Base	29,750	\$344,803
2	32,041	\$371,354
3	34,508	\$399,950
4	37,165	\$430,747
5	40,027	\$463,917
6	43,110	\$499,641
7	46,429	\$538,115
8	50,005	\$579,552
9	53,855	\$624,180
10	58,002	\$672,245
11	62,469	\$724,011
12	67,279	\$779,763
13	72,460	\$839,808
14	78,039	\$904,477
15	84,049	\$974,125
16	90,521	\$1,049,137
17	97,491	\$1,129,925
18	104,999	\$1,216,934
19	113,084	\$1,310,643
20	121,792	\$1,411,569
Net Present Worth (4%)		\$9,432,052
Net Present Worth (10%)		\$5,167,266

Summary--Benefit/Cost Analysis (Net Present Value)

Discount Rate:	4%	10%
Person-Hours:	\$9,432,052	\$5,167,266
Costs:	\$12,511,600	\$12,511,600
B/C Ratio:	0.75	0.41

Net Present Worth Estimates

Analysis Period: 20  
 Design Year: 2011  
 Project: Laredo (Del Mar Boulevard Interchange)  
 Alternative: 2C Combined w/ 1C

Input Assumptions:

Discount Rates:	4% (Standard)	Initial Costs:	\$13,109,400
	10% (FHWA)	Saving Growth Rate:	ERR
Rate/Person-Hr.:	\$9.76		
Occupancy Rate:	1.25		
Percent Trucks:	25%		

Travel Delay (Existing Conditions)

Vehicle-Hours	Daily	Annual
Delay Base Year:	211	52,750
Delay Design Year:	4132	1,033,000

Travel Delay (Alternative 2C Combined w/1C)

Vehicle-Hours	Daily	Annual
Delay Base Year:	246	61,500
Delay Design Year:	530	132,500

---

Year	Annual Delay Savings (Vehicle-Hrs)	Annual Savings Person-Hrs. (Dollars)
Base	(8,750)	(\$101,413)
2	(9,424)	(\$109,222)
3	(10,149)	(\$117,632)
4	(10,931)	(\$126,690)
5	(11,773)	(\$136,446)
6	(12,679)	(\$146,953)
7	(13,656)	(\$158,269)
8	(14,707)	(\$170,457)
9	(15,840)	(\$183,582)
10	(17,059)	(\$197,719)
11	(18,373)	(\$212,944)
12	(19,788)	(\$229,342)
13	(21,312)	(\$247,002)
14	(22,953)	(\$266,023)
15	(24,720)	(\$286,507)
16	(26,624)	(\$308,570)
17	(28,674)	(\$332,331)
18	(30,882)	(\$357,922)
19	(33,260)	(\$385,483)
20	(35,821)	(\$415,167)

Net Present Worth (4%) (\$2,774,133)  
 Net Present Worth (10%) (\$1,519,784)

Summary--Benefit/Cost Analysis (Net Present Value)

Discount Rate:	4%	10%
Person-Hours:	(\$2,774,133)	(\$1,519,784)
Costs:	\$13,109,400	\$13,109,400
B/C Ratio:	-0.21	-0.12